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FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005
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FILE COVERS 1907 - 23 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 22 Mar 2005 (20050322/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s synergy
      9076 SYNERGY
      364 SYNERGIES
L1      9392 SYNERGY
          (SYNERGY OR SYNERGIES)
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=> s synergy and (antioxidant? or lipoic acid? or "acetyl-L-carnitine" or resveratrol or lecithin? or "N-acetyl cysteine")
9076 SYNERGY
364 SYNERGIES
9392 SYNERGY
(SYNERGY OR SYNERGIES)
123295 ANTIOXIDANT?
3317 LIPOIC
4627513 ACID?
3275 LIPOIC ACID?
(LIPOIC(W)ACID?)
146459 "ACETYL"
63 "ACETYLS"
146494 "ACETYL"
("ACETYL" OR "ACETYLS")
1394892 "L"

9524 "CARNITINE"
 318 "CARNITINES"
 9541 "CARNITINE"
 ("CARNITINE" OR "CARNITINES")
 616 "ACETYL-L-CARNITINE"
 ("ACETYL"(W)"L"(W)"CARNITINE")
 2247 RESVERATROL
 23 RESVERATROLS
 2248 RESVERATROL
 (RESVERATROL OR RESVERATROLS)
 38776 LECITHIN?
 2782225 "N"
 146459 "ACETYL"
 63 "ACETYLS"
 146494 "ACETYL"
 ("ACETYL" OR "ACETYLS")
 94754 "CYSTEINE"
 5243 "CYSTEINES"
 96816 "CYSTEINE"
 ("CYSTEINE" OR "CYSTEINES")
 811 "N-ACETYL CYSTEINE"
 ("N"(W)"ACETYL"(W)"CYSTEINE")
 L2 152 SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE"
 " OR RESVERATROL OR LECITHIN? OR "N-ACETYL CYSTEINE")

 => s 12 and (cognitive or cognition or auditory or hearing)
 13773 COGNITIVE
 9699 COGNITION
 22 COGNITIONS
 9712 COGNITION
 (COGNITION OR COGNITIONS)
 6889 AUDITORY
 4636 HEARING
 102 HEARINGS
 4734 HEARING
 (HEARING OR HEARINGS)
 L3 2 L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)

=> d 13 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2003:764133 CAPLUS
 DN 140:35824
 TI Combination therapy of donepezil and vitamin E in Alzheimer disease
 AU Klatte, Emily T.; Scharre, Douglas W.; Nagaraja, Haikady N.; Davis,
 Rebecca A.; Beversdorf, David Q.
 CS Department of Neurology, Ohio State University, Columbus, OH, 43210, USA
 SO Alzheimer Disease and Associated Disorders (2003), 17(2), 113-116
 CODEN: ADADE2; ISSN: 0893-0341
 PB Lippincott Williams & Wilkins
 DT Journal
 LA English
 RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:532957 CAPLUS
 DN 138:100202
 TI Neuroprotective profile of enoxaparin, a low-molecular-weight heparin, in
 in-vivo models of cerebral ischemia or traumatic brain injury in rats: a
 review
 AU Mary, Veronique; Wahl, Florence; Grosjean-Piot, Odile; Uzan, Andre; Pratt,
 Jeremy
 CS Neurodegenerative Disease Group, Aventis Pharma, Vitry sur Seine, 94403,

Fr.
SO CNS Drug Reviews (2002), 8(1), 1-30
CODEN: CDREFB; ISSN: 1080-563X
PB Neva Press
DT Journal; General Review
LA English
RE.CNT 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 13 2 ibib ed abs

L3 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:532957 CAPLUS
DOCUMENT NUMBER: 138:100202
TITLE: Neuroprotective profile of enoxaparin, a low-molecular-weight heparin, in in-vivo models of cerebral ischemia or traumatic brain injury in rats: a review
AUTHOR(S): Mary, Veronique; Wahl, Florence; Grosjean-Piot, Odile; Uzan, Andre; Pratt, Jeremy
CORPORATE SOURCE: Neurodegenerative Disease Group, Aventis Pharma, Vitry sur Seine, 94403, Fr.
SOURCE: CNS Drug Reviews (2002), 8(1), 1-30
CODEN: CDREFB; ISSN: 1080-563X
PUBLISHER: Neva Press
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
ED Entered STN: 17 Jul 2002
AB A review. The development of treatments for acute neurodegenerative diseases (stroke and brain trauma) has focused on (i) re-establishing blood flow to ischemic areas as quickly as possible (i.e., mainly antithrombotics or thrombolytics for stroke therapy) and (ii) on protecting neurons from cytotoxic events (i.e., neuroprotective therapies such as antiexcitotoxic or anti-inflammatory agents for stroke and neurotrauma therapies). This paper reviews the preclin. data for enoxaparin in in-vivo models of ischemia and brain trauma in rats. Following a photothrombotic lesion in the rat, enoxaparin reduced edema at 24 h after lesion when the treatment was started <18 h after insult. Enoxaparin was also tested after an ischemic insult by using the transient middle cerebral artery occlusion (tMCAO) model in the rat. Enoxaparin, 1.5 mg/kg, i.v., twice, reduced the lesion size and improved the neuroscore when the treatment was started <5 h after ischemia. When administered 5 h after insult, enoxaparin reduced cortical lesion size in a dose-dependent manner. In permanent MCAO, enoxaparin (5 and 24 h after insult) reduced lesion size and improved neuroscore. A slight and reversible elevation of activated partial thromboplastin time suggests that enoxaparin is neuroprotective at a nonhemorrhagic dose. Traumatic brain injury (TBI) is often accompanied by secondary ischemia due in part to edema-induced compression of blood vessels. When enoxaparin, 0.5 mg/kg i.v. + 4 + 1 mg/kg s.c., was administered >30 h after TBI, it reduced edema in the hippocampus and parietal cortex. One week after TBI the lesion size was reduced and the neurol. deficit improved in enoxaparin-treated animals. Finally, the cognitive impairment was improved by enoxaparin 48 h-2 wk after TBI. The anticoagulant properties of unfractionated heparin and, specifically, enoxaparin can explain their anti-ischemic effects in exptl. models. Furthermore, unfractionated heparin and, specifically, enoxaparin, have, in addition to anticoagulant, many other pharmacol. effects (i.e., reduction of intracellular Ca²⁺ release; antioxidant effect; anti-inflammatory or neurotrophic effects) that could act in synergy to explain the neuroprotective activity of enoxaparin in acute neurodegenerative diseases. Finally, in different in-vivo models of acute neurodegenerative diseases, enoxaparin reduces brain edema and lesion size and improves

motor and cognitive recovery with a large therapeutic window of opportunity (compatible with a clin. use). Taking into account these exptl. data in models of ischemia and brain trauma, the clin. use of enoxaparin in acute neurodegenerative diseases warrants serious consideration.

REFERENCE COUNT: 84 THERE ARE 84 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> e seidman m/au

E1	3	SEIDMAN LISA A/AU
E2	1	SEIDMAN LISA ALISON/AU
E3	5 -->	SEIDMAN M/AU
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E8	16	SEIDMAN MARTIN/AU
E9	26	SEIDMAN MICHAEL/AU
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E16	1	SEIDMAN PEGGY/AU
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E18	3	SEIDMAN R/AU
E19	2	SEIDMAN RACHEL/AU
E20	2	SEIDMAN ROBERTA J/AU
E21	5	SEIDMAN S/AU
E22	1	SEIDMAN S F/AU
E23	1	SEIDMAN S L/AU
E24	1	SEIDMAN S M/AU

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147650 MITOCHONDRI?

L5 11 L4 AND (MITOCHONDRI?)

=> d 15 1-11 ibib ed abs

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2004:1023005 CAPLUS

DOCUMENT NUMBER: 142:53926

TITLE: Role of Bcl-2 family of proteins in mediating apoptotic death of PC12 cells exposed to oxygen and

AUTHOR(S): glucose deprivation
Koubi, David; Jiang, Hao; Zhang, Lijie; Tang, Wexue;
Kuo, Jarret; Rodriguez, Alba I.; Hunter, Tangella
Jackson; **Seidman, Michael D.**; Corcoran,
George B.; Levine, Robert A.

CORPORATE SOURCE: William T. Gossett Neurology Laboratories, Detroit,
MI, 48202, USA

SOURCE: Neurochemistry International (2004), Volume Date 2005,
46(1), 73-81
CODEN: NEUIDS; ISSN: 0197-0186

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 29 Nov 2004

AB Apoptotic cell death has been observed in many in vivo and in vitro models of ischemia. However, the mol. pathways involved in ischemia-induced apoptosis remain unclear. We have examined the role of Bcl-2 family of proteins in mediating apoptosis of PC12 cells exposed to the conditions of oxygen and glucose deprivation (OGD) or OGD followed by restoration of oxygen and glucose (OGD-restoration, OGD-R). OGD decreased **mitochondrial** membrane potential and induced necrosis of PC12 cells, which were both prevented by the overexpression of Bcl-2 proteins. OGD-R caused apoptotic cell death, induced cytochrome C release from **mitochondria** and caspase-3 activation, decreased **mitochondrial** membrane potential, and increased levels of pro-apoptotic Bax translocated to the **mitochondrial** membrane, all of which were reversed by overexpression of Bcl-2. These results demonstrate that the cell death induced by OGD and OGD-R in PC12 cells is potentially mediated through the regulation of **mitochondrial** membrane potential by the Bcl-2 family of proteins. It also reveals the importance of developing therapeutic strategies for maintaining the **mitochondrial** membrane potential as a possible way of reducing necrotic and apoptotic cell death that occurs following an ischemic insult.

REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:404998 CAPLUS
DOCUMENT NUMBER: 141:120554
TITLE: Age-related Hearing Loss and its Association with Reactive Oxygen Species and **Mitochondrial** DNA damage

AUTHOR(S): **Seidman, Michael D.**; Ahmad, Nadir; Joshi, Dipa; Seidman, Jake; Thawani, Sujatha; Quirk, Wayne S.

CORPORATE SOURCE: Henry Ford Health System, West Bloomfield, MI, USA

SOURCE: Acta Oto-Laryngologica, Supplement (2004), 552, 16-24
CODEN: AOLSA5; ISSN: 0365-5237

PUBLISHER: Taylor & Francis

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 19 May 2004

AB A review. Age-related hearing loss, known as presbycusis, is characterized by the progressive deterioration of auditory sensitivity associated with the aging process and is the leading cause of adult auditory deficiency in the USA. Presbycusis is described as a progressive, bilateral, high-frequency hearing loss that is manifested on audiometric assessment by a moderately sloping pure tone audiogram. Approx. 23% of the population between 65 and 75 yr of age, and 40% of the population older than 75 yr of age are affected by this condition. It was estimated in 1980 that 11% of the population was 76 yr or older and this number is expected to almost double by the year 2030. When one considers that the population over 65 yr of age is experiencing the most accelerated development of hearing loss, the potential socioeconomic ramifications are

staggering. Curiously, the frequency of presbycusis varies across different societies. This discrepancy has been attributed to many factors including genetics, diet, socioeconomic factors, and environmental variables. The purpose of this article is to review the various mol. mechanisms underlying presbycusis and to offer insights into potential methods of mitigating the effects of aging on hearing impairment.

REFERENCE COUNT: 79 THERE ARE 79 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:376277 CAPLUS
DOCUMENT NUMBER: 138:365152
TITLE: Method of determining biological/molecular age
INVENTOR(S): Seidman, Michael D.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 9 pp., Cont.-in-part of U.S. Ser. No. 885,732, abandoned.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2003092052	A1	20030515	US 2002-271469	20021015
US 2001055769	A1	20011227	US 2001-885732	20010620
PRIORITY APPLN. INFO.:			US 2000-212747P	P 20000620
			US 2001-885732	B2 20010620

ED Entered STN: 16 May 2003
AB Methods of obtaining a measurement indicative of oxidative stress and the mol. age of an individual include the step of detecting a **mitochondrial DNA** deletion and correlating the quantity of the deletion with a measurement of a parameter related to oxygen metabolism

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2003:232038 CAPLUS
DOCUMENT NUMBER: 138:399824
TITLE: Effect of SOD1 overexpression on age- and noise-related hearing loss
AUTHOR(S): Coling, Donald E.; Yu, Kenneth C. Y.; Somand, David; Satar, Bulent; Bai, Uma; Huang, Ting-Ting; Seidman, Michael D.; Epstein, Charles J.; Mhatre, Anand N.; Lalwani, Anil K.
CORPORATE SOURCE: Department of Otolaryngology--Head and Neck Surgery, Epstein Laboratories, Laboratory of Molecular Otology, University of California San Francisco, San Francisco, CA, 94143-0526, USA
SOURCE: Free Radical Biology & Medicine (2003), 34(7), 873-880
CODEN: FRBMEH; ISSN: 0891-5849
PUBLISHER: Elsevier Science Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 25 Mar 2003
AB Reactive oxygen species (ROS) have been implicated in hearing loss associated with aging and noise exposure. Superoxide dismutases (SODs) form a first line of defense against damage mediated by the superoxide anion, the most common ROS. Absence of Cu/Zn SOD (SOD1) has been shown to potentiate hearing loss related to noise exposure and age. Conversely, overexpression of SOD1 may be hypothesized to afford a protection from age- and noise-related hearing loss. This hypothesis may be tested using a transgenic mouse model carrying the human SOD1 gene. Contrary to expectations, here, we report that no protection against age-related hearing loss was observed in mice up to 7 mo of age or from noise-induced

hearing loss when 8 wk old mice were exposed to broadband noise (4-45 kHz, 110 dB for 1 h). Mitochondrial DNA deletion, an index of aging, was elevated in the acoustic nerve of transgenic mice compared to nontransgenic littermates. The results indicate the complexity of oxidative metabolism in the cochlea is greater than previously hypothesized.

REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:956200 CAPLUS
DOCUMENT NUMBER: 138:219020
TITLE: Molecular mechanisms of age-related hearing loss
AUTHOR(S): Seidman, Michael D.; Ahmad, Nadir; Bai, Uma
CORPORATE SOURCE: Department of Otolaryngology, Head & Neck Surgery,
Department of Otolaryngology, Division
Otolologic/Neurotologic Surgery,
Complementary/Integrative Medicine, Henry Ford
Hospital System, Complementary/Integrative Medicine,
Bloomfield, MI, 48323, USA
SOURCE: Ageing Research Reviews (2002), 1(3), 331-343
CODEN: ARRGAK; ISSN: 1568-1637

PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English

ED Entered STN: 18 Dec 2002

AB A review. Age-related hearing loss, known as presbyacusis, is characterized by the progressive deterioration of auditory sensitivity associated with aging and is the most common cause of adult auditory deficiency in the United States. Presbyacusis is defined as a progressive, bilateral, high-frequency hearing loss that is manifested on audiometric assessment by a moderately sloping pure tone audiogram. This condition affects approx. 23% of the population between 65 and 75 yr of age and 40% of the population older than 75 yr of age. In 1980, it was estimated that 11% of the population was 76 yr or older and this number is expected to nearly double by the year 2030. When coupled with the fact that the population over 65 yr of age is experiencing the most rapid progression of hearing loss, the potential socioeconomic ramifications are staggering. Interestingly, presbyacusis varies in its frequency across differing societies. This discrepancy was attributed to many factors such as genetics, diet, socioeconomic factors, and environmental variables. The purpose of this discussion is to illuminate the various mol. mechanisms underlying this age-related hearing loss and to offer insights into potential ways to mitigate the effects of aging on hearing impairment.

REFERENCE COUNT: 75 THERE ARE 75 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:936054 CAPLUS
DOCUMENT NUMBER: 136:32677
TITLE: Method of determining biological/molecular age
INVENTOR(S): Seidman, Michael D.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 4 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2001055769	A1	20011227	US 2001-885732	20010620
US 2003092052	A1	20030515	US 2002-271469	20021015

PRIORITY APPLN. INFO.: US 2000-212747P P 20000620
US 2001-885732 B2 20010620

ED Entered STN: 28 Dec 2001

AB The mol. biol. age of an individual, as opposed to the chronol. age, is determined by extracting **mitochondrial** DNA from a phys. specimen from the individual, performing mol. biol. testing to detect aging deletions, quantifying the deletions and comparing the quantification with normative data for the quantification derived from a plurality of age groups of a population.

L5 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:832448 CAPLUS
DOCUMENT NUMBER: 136:100607
TITLE: DNA repair and mutagenesis in Werner syndrome
AUTHOR(S): Bohr, Vilhelm A.; Pinto, Nadja Souza; Nyaga, Simon G.; Dianov, Grigory; Kraemer, Kenneth; **Seidman, Michael M.**; Brosh, Robert M., Jr.
CORPORATE SOURCE: Laboratory of Molecular Gerontology, National Institute on Aging, National Institutes of Health, Baltimore, MD, 21224, USA
SOURCE: Environmental and Molecular Mutagenesis (2001), 38(2/3), 227-234
CODEN: EMMUEG; ISSN: 0893-6692

PUBLISHER: Wiley-Liss, Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

ED Entered STN: 16 Nov 2001

AB Werner syndrome (WS) is the hallmark premature aging syndrome in which the patients appear much older than their actual chronol. age. The disorder is associated with significantly increased genome instability and with transcriptional deficiencies. There has been some uncertainty about whether WS cells are defective in DNA repair. We thus examined repair in vitro in nuclear and **mitochondrial** DNA. Whereas cellular studies so far do not show significant DNA repair deficiencies, biochemical studies with the Werner protein clearly indicate that it plays a role in DNA repair.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:307907 CAPLUS
DOCUMENT NUMBER: 135:271196
TITLE: A specific **mitochondrial** DNA deletion (mtDNA4977) is identified in a pedigree of a family with hearing loss
AUTHOR(S): Bai, Uma; **Seidman, Michael D.**
CORPORATE SOURCE: Department of Otolaryngology-HNS, Henry Ford Health System, Detroit, MI, 48322, USA
SOURCE: Hearing Research (2001), 154(1-2), 73-80
CODEN: HERED3; ISSN: 0378-5955
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 02 May 2001

AB This paper presents a family pedigree of sensorineural hearing loss in patients with a **mitochondrial** DNA (mtDNA) deletion. Genomic DNA screenings including myo 15 and connexin 26 were normal. MtDNA deletions are associated with many pathophysiol. conditions, including neurol. disorders, sensorineural hearing loss, ischemia, cardiomyopathies and aging. Several **mitochondrial** disorders secondary to mutations or deletions in mtDNA have been identified in association with deafness. The present study describes a pedigree of five individuals with hearing loss who harbor a 4977 bp common aging deletion, in their mtDNA. Chromosomal anal. was normal in all affected individuals. Audiol. and mol. biol.

findings of these patients suggest that the common aging deletion of mtDNA may be a predisposing factor in sensorineural hearing loss in this family.
REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2000:352860 CAPLUS
DOCUMENT NUMBER: 133:134621
TITLE: Effects of dietary restriction and antioxidants on presbyacusis
AUTHOR(S): Seidman, Michael D.
CORPORATE SOURCE: Department of Otolaryngology-Head and Neck Surgery, Henry Ford Health System, West Bloomfield, MI, USA
SOURCE: Laryngoscope (2000), 110(5, Pt. 1), 727-738
CODEN: LARYA8; ISSN: 0023-852X
PUBLISHER: Lippincott Williams & Wilkins
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 28 May 2000
AB Objectives/Hypothesis: The premise of this study is that the membrane hypothesis of aging, also known as the **mitochondrial clock** theory of aging, is the basis for presbyacusis. Furthermore, it is proposed that treatment with antioxidants or dietary restriction can attenuate age-related hearing loss. Many studies have demonstrated a reduction in blood flow to specific tissues, including the cochlea, with aging. Hypoperfusion leads to the formation of reactive oxygen metabolites (ROM). ROM are highly toxic mols. that directly affect tissues including inner ear structures. In addition, ROM can damage **mitochondrial DNA** (mtDNA), resulting in the production of specific mtDNA deletions (mtDNA del4977 [human] or mtDNA del4834 [rat]; also known as the common aging deletion). Previous corroborating data suggest that the common aging deletion mtDNA4834 may be associated not only with aging but also with presbyacusis, thus further strengthening the basis of the current studies. In this study, expts. provide compelling evidence that long-term treatment with compds. that block or scavenge reactive oxygen metabolites attenuate age-related hearing loss and reduce the impact of associated deleterious changes at the mol. level. Study Design: Prospective randomized study. Methods: One hundred thirty rats were randomly assigned to one of six groups with appropriate controls. Animals were divided into the following treatment arms: group 1, 30% caloric restriction; group 2, vitamin E oversupplementation; group 3, vitamin C oversupplementation; group 4, melatonin treatment; group 5, lazaron treatment; and group 6, placebo. In addition, 10 animals were used to determine the appropriate caloric restriction. All subjects underwent baseline and every-3-mo testing until their health failed (range, 18-28 mo; average, 25 mo). This testing included auditory sensitivity studies using auditory brainstem response (ABR) testing, as well as tissue anal. for mtDNA deletions using mol. biol. techniques. At the conclusion of the study, animals underwent a final ABR test and were tested for mtDNA deletions in brain and inner ear tissues, and the opposite ear was used for histol. anal. Results: Results indicated that the 30%-caloric-restricted group maintained the most acute auditory sensitivities, the lowest quantity of mtDNA deletions, and the least amount of outer hair cell loss. The antioxidant-treated subjects had improved auditory sensitivities, and a trend for fewer mtDNA deletions was observed compared with the placebo subjects. The placebo subjects had the poorest auditory sensitivity, the most mtDNA deletions, and the greatest degree of outer hair cell loss. Conclusions: Intervention designed to reduce reactive oxygen metabolite damage appears to protect against age-related hearing loss specifically and aging in general. This is reflected by an overall reduction in mtDNA deletions. These data also suggest that the common aging deletion appears to be associated with presbyacusis, as demonstrated by an increased frequency of the mtDNA del4834 in the cochleae with the most significant hearing loss. Nutritional and

pharmacol. strategies may very well provide rational treatment options that would limit the age-associated increase in ROM generation, reduce mtDNA damage, and reduce the degree of hearing loss as the organism advances in age.

REFERENCE COUNT: 70 THERE ARE 70 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1999:705000 CAPLUS
DOCUMENT NUMBER: 131:314225
TITLE: Mitochondrial function-enhancing nutritional supplement for improvement of auditory function
INVENTOR(S): Seidman, Michael D.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5977162	A	19991102	US 1997-931134	19970916
PRIORITY APPLN. INFO.:			US 1996-26162P	P 19960916

ED Entered STN: 04 Nov 1999

AB A nutritional supplement for enhancing mitochondrial function in cells includes 10-1000 mg of alpha-lipoic acid, 10-1000 mg acetyl-L-carnitine, 15-360 mg coenzyme Q-10, and 15-360 mg glutathione. The composition may further comprise a carrier for these components such as a liquid or tablet for oral ingestion on a daily basis.

REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1997:28192 CAPLUS
DOCUMENT NUMBER: 126:140258
TITLE: Association of mitochondrial DNA deletions and cochlear pathology: A molecular biology tool
AUTHOR(S): Seidman, Michael D.; Bai, Uma; Khan, Mumtaz J.; Murphy, Michael P.; Quirk, Wayne S.; Castora, Frank J.; Hinojosa, Raul
CORPORATE SOURCE: Department of Otolaryngology (M.D.S., M.J.K., M.P.M., U.B.), Henry Ford Hospital, Detroit, USA
SOURCE: Laryngoscope (1996), 106(6), 777-783
CODEN: LARYA8; ISSN: 0023-852X
PUBLISHER: American Laryngological, Rhinological and Otological Society, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

ED Entered STN: 16 Jan 1997

AB The purpose of these expts. was to develop a method of isolation, amplification, and identification of cochlear mitochondrial DNA (mtDNA) from minute quantities of tissue. Addnl., studies were designed to detect mtDNA deletions (mtDNA del) from the cochlea that previously have been amplified from other organ systems and tissues. MtDNA del have been associated with many pathologies, including neurol. disorders, sensorineural hearing loss, ischemia, cardiomyopathies, and aging. DNA was extracted from rat and human tissues, and polymerase chain reaction was used to amplify mtDNA sequences. A 360 base pair (bp) cytochrome-b gene product and the highly conserved ND1-16S rRNA regions found only in mtDNA were amplified from all tissues. Preliminary studies have identified a 4834 bp mtDNA del in aged rats and a corresponding 4977 bp mtDNA del in aged humans. Addnl., preliminary results in human archival temporal bone

studies reveal the presence of the 4977-bp mtDNA deletion in two out of three patients with presbycusis. The deletion was not evident in age-matched control patients without a history of presbycusis. This technique of mtDNA identification makes it possible to investigate specific mtDNA defects from a single cochlea, promoting the study of hereditary hearing loss and presbycusis at a mol. biol. level.

REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
E SEIDMAN M/AU
L4 141 S E3-E12
L5 11 S L4 AND (MITOCHONDRI?)

=> s 14 and (antioxidant?)

123295 ANTIOXIDANT?

L6 4 L4 AND (ANTIOXIDANT?)

=> s 16 not 15

L7 1 L6 NOT L5

=> d 17 ibib ed abs

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:289292 CAPLUS

DOCUMENT NUMBER: 130:332163

TITLE: Glutamate antagonists, steroids, and
antioxidants as therapeutic options for
hearing loss and tinnitus and the use of an inner ear
drug delivery system

AUTHOR(S): Seidman, Michael D.

CORPORATE SOURCE: Department of Otolaryngology-Head and Neck Surgery,
Tinnitus Clinic, Henry Ford Health System, W.
Bloomfield, MI, 48323, USA

SOURCE: International Tinnitus Journal (1998), 4(2), 148-154
CODEN: ITJOF9; ISSN: 0946-5448

PUBLISHER: Tinnitus Center, State University of New York

DOCUMENT TYPE: Journal; General Review

LANGUAGE: English

ED Entered STN: 11 May 1999

AB A review with 42 refs. A wealth of anecdotal, empirical, and
double-blind, placebo-controlled data exists on medicines that may have a
beneficial role in the management of patients with tinnitus. Tinnitus is
a symptom that affects between 40 and 45 million Americans alone; this
represents approx. 14% of the US population. Data exist for Japan
(population: 125,732,794), Europe (population: 503 million), and Australia
(population: 18,426,900), and ests. suggest that tinnitus affects a
similar percentage of those populations (B. Tabachnick, personal
communication, 1998). Thus, in those industrialized nations, approx. 90
million may experience tinnitus to some degree. One to two percent of the
population experiences debilitating tinnitus, severely limiting the
quality of life of affected individuals. All too often, the response from
well-trained medical professionals is, "Learn to live with it" or "There
is no cure.". Although the author does not dispute that currently no cure
exists, I contend that help is available. This article discusses the use
of glutamate antagonists, steroids, and antioxidants for the

management of hearing loss and tinnitus. Addnl., the results of using an inner ear drug delivery system on nine patients with a variety of inner ear disorders are reviewed briefly.

REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 14 and (resveratrol? or lipoic acid? or "acetyl-L-carnitine" or lecithin? or "N-acetyl cysteine")
2256 RESVERATROL?
3317 LIPOIC
4627513 ACID?
3275 LIPOIC ACID?
(LIPOIC(W)ACID?)
146459 "ACETYL"
63 "ACETYLS"
146494 "ACETYL"
("ACETYL" OR "ACETYLS")
1394892 "L"
9524 "CARNITINE"
318 "CARNITINES"
9541 "CARNITINE"
("CARNITINE" OR "CARNITINES")
616 "ACETYL-L-CARNITINE"
("ACETYL"(W)"L"(W)"CARNITINE")
1 LECITHIN?
2782225 "N"
146459 "ACETYL"
63 "ACETYLS"
146494 "ACETYL"
("ACETYL" OR "ACETYLS")
94754 "CYSTEINE"
5243 "CYSTEINES"
96816 "CYSTEINE"
("CYSTEINE" OR "CYSTEINES")
811 "N-ACETYL CYSTEINE"
("N"(W)"ACETYL"(W)"CYSTEINE")
L8 1 L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE" OR LECITHIN? OR "N-ACETYL CYSTEINE")

=> d 18

L8 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:705000 CAPLUS
DN 131:314225
TI Mitochondrial function-enhancing nutritional supplement for improvement of auditory function
IN Seidman, Michael D.
PA USA
SO U.S., 7 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5977162	A	19991102	US 1997-931134	19970916
PRAI	US 1996-26162P	P	19960916		

RE.CNT 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file stnguide
COST IN U.S. DOLLARS

SINCE FILE TOTAL

	ENTRY	SESSION
FULL ESTIMATED COST	119.11	119.32
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	-9.49	-9.49

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 18, 2005 (20050318/UP).

	SINCE FILE	TOTAL
COST IN U.S. DOLLARS	ENTRY	SESSION
FULL ESTIMATED COST	0.12	119.44
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-9.49

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FILE COVERS 1907 - 23 Mar 2005 VOL 142 ISS 13
 FILE LAST UPDATED: 22 Mar 2005 (20050322/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

	FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005
L1	9392 S SYNERGY
L2	152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
L3	2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
	E SEIDMAN M/AU
L4	141 S E3-E12
L5	11 S L4 AND (MITOCHONDRI?)
L6	4 S L4 AND (ANTIOXIDANT?)
L7	1 S L6 NOT L5
L8	1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE"

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.45	119.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-9.49

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 22 MAR 2005 HIGHEST RN 847018-75-1
DICTIONARY FILE UPDATES: 22 MAR 2005 HIGHEST RN 847018-75-1

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e alpha lipoic acid/cn

E1	2	ALPHA KETO ACID DEHYDROGENASE COMPLEX, E3 COMPONENT, LIPOAMIDE DE DEHYDROGENASE (WOLBACHIA PIPIENTIS STRAIN WMEL GENE LPDA) /CN
E2	1	ALPHA LIPID 300/CN
E3	0 -->	ALPHA LIPOIC ACID/CN
E4	1	ALPHA MANNOSIDASE (SYNECHOCOCCUS STRAIN WH8102 GENE SYNW0267) /CN
E5	1	ALPHA MANNOSIDASE 6A8B (HUMAN GENE 6A8B)/CN
E6	1	ALPHA MANNOSIDASE II ISOZYME (HUMAN CELL LINE SK-MEL-28 CLONE PMX6)/CN
E7	1	ALPHA MANNOSIDASE II ISOZYME (HUMAN CELL LINE SK-MEL-28)/CN
E8	1	ALPHA MATING PHEROMONE (SACCHAROMYCES NAGANISHII GENE MFALPH A1 PRECURSOR)/CN
E9	1	ALPHA MEDOPA/CN
E10	1	ALPHA METALS 171/CN
E11	1	ALPHA MS/CN
E12	1	ALPHA NAC (ARABIDOPSIS THALIANA GENE F7L13.60)/CN

=> e thioctic acid/cn

E1	1	THIOCTAMIDE/CN
----	---	----------------

E2 1 THIOCTAN/CN
E3 1 --> THIOCTIC ACID/CN
E4 1 THIOCTIC ACID AMIDE/CN
E5 1 THIOCTIC ACID N-HYDROXYSUCCINIMIDE ESTER/CN
E6 1 THIOCTIC ACID SALT WITH L-CARNITINE/CN
E7 1 THIOCTIC ACID, DIHYDRO-/CN
E8 1 THIOCTIC ACID, SODIUM SALT/CN
E9 1 THIOCTIC AMIDE/CN
E10 1 THIOCTSAN/CN
E11 1 THIOCUPRATE (CU(SH)3S3-)/CN
E12 1 THIOCUPRATE (CU(SH)42-)/CN

=> s e3

L9 1 "THIOCTIC ACID"/CN

=> e acetyl-l-carnitine/cn

E1 1 ACETYL-L-ALANYLGLYCYLGLYCINE METHYL ESTER/CN
E2 1 ACETYL-L-ASPARTIC ACID/CN
E3 1 --> ACETYL-L-CARNITINE/CN
E4 1 ACETYL-L-CARNITINE ACID PHOSPHATE/CN
E5 1 ACETYL-L-CARNITINE ACID SULFATE/CN
E6 1 ACETYL-L-CARNITINE GLUCOSE PHOSPHATE/CN
E7 1 ACETYL-L-CARNITINE GLYCEROPHOSPHATE/CN
E8 1 ACETYL-L-CARNITINE LACTATE/CN
E9 1 ACETYL-L-CARNITINE MAGNESIUM CITRATE/CN
E10 1 ACETYL-L-CARNITINE METHANESULFONATE/CN
E11 1 ACETYL-L-CARNITINE OROTALE/CN
E12 1 ACETYL-L-CARNITINE TRICHLOROACETATE/CN

=> s e3

L10 1 ACETYL-L-CARNITINE/CN

=> e resveratrol/cn

E1 1 RESUSCITATION-PROMOTING FACTOR PROTEIN (MICROCOCCUS LUTEUS S TRAIN JCM-3348)/CN
E2 1 RESUSCITATION-PROMOTING FACTOR PROTEIN (MICROCOCCUS LUTEUS S TRAIN NCIMB-13267)/CN
E3 1 --> RESVERATROL/CN
E4 1 RESVERATROL B-D-GLUCOSIDE/CN
E5 1 RESVERATROL 12-C-B-GLUCOPYRANOSIDE/CN
E6 1 RESVERATROL 3-O-B-GLUCOPYRANOSIDE/CN
E7 1 RESVERATROL 4'-O-B-D-GLUCOPYRANOSIDE/CN
E8 1 RESVERATROL CIS-DEHYDRODIMER/CN
E9 1 RESVERATROL GLUCOSIDE/CN
E10 1 RESVERATROL SYNTHASE/CN
E11 1 RESVERATROL SYNTHASE (ARACHIS HYPOGAEA CLONE PRS-JP1 GENE RS 3) (E.C.2.3.1.95)/CN
E12 1 RESVERATROL SYNTHASE (PEANUT)/CN

=> s e3

L11 1 RESVERATROL/CN

=> e lecithin/cn

E1 1 LECITASE NOVO/CN
E2 1 LECITASE ULTRA/CN
E3 0 --> LECITHIN/CN
E4 1 LECITHIN 5F-UB/CN
E5 1 LECITHIN CHOLESTEROL ACYLTRANSFERASE (MOUSE STRAIN FVB/N CLO NE MGC:25630 IMAGE:4212194)/CN
E6 1 LECITHIN DISTEARYL ETHER/CN
E7 1 LECITHIN DX/CN
E8 1 LECITHIN H/CN
E9 1 LECITHIN ISOPROPYL PALMITATE/CN
E10 1 LECITHIN RETINOL ACYLTRANSFERASE (PHOSPHATIDYLCHOLINE--RETIN

OL O-ACYLTRANSFERASE) (HUMAN CLONE MGC:33103 IMAGE:5272486) / CN

E11 1 LECITHIN RETINOL ACYLTRANSFERASE (XENOPUS TROPICALIS CLONE M GC:75880 IMAGE:5383085 GENE MGC75880) / CN

E12 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE / CN

=> e

E13 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (ACOMYS CAHIRINUS T-167 0 GENE LCAT FRAGMENT) / CN

E14 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (AKODON TORQUES GENE LC AT EXON 6 FRAGMENT) / CN

E15 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (ALLACTAGA ELATER T-104 5 GENE LCAT FRAGMENT) / CN

E16 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (CALOMYSCUS MYSTAX T-10 67 GENE LCAT FRAGMENT) / CN

E17 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (CLETHRIONOMYS GLAREOLUS GENE LCAT EXON 6 FRAGMENT) / CN

E18 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (CRICETULUS MIGRATORIUS GENE LCAT EXON 6 FRAGMENT) / CN

E19 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (DENDROMUS MYSTACALIS T -1422 GENE LCAT FRAGMENT) / CN

E20 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (DEOMYS FERRUGINEUS T-7 78 GENE LCAT FRAGMENT) / CN

E21 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (DICROSTONYX TORQUATUS T-1337 GENE LCAT FRAGMENT) / CN

E22 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (DIPUS SAGITTA T-869 GE NE LCAT FRAGMENT) / CN

E23 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (ELIOMYS QUERCINUS GENE LCAT EXON 6 FRAGMENT) / CN

E24 1 LECITHIN-CHOLESTEROL ACYLTRANSFERASE (GERBILLUS HENLEYI GENE LCAT EXON 6 FRAGMENT) / CN

=> e n-acetyl cysteine/cn

E1 1 N-ACETYL CARBARYL / CN

E2 1 N-ACETYL CROTYLGLYCINE / CN

E3 0 --> N-ACETYL CYSTEINE / CN

E4 1 N-ACETYL GABA / CN

E5 1 N-ACETYL GALACTOSAMINIDASE, ALPHA (MOUSE STRAIN CZECH II CLO NE MGC:13811 IMAGE:4019197) / CN

E6 1 N-ACETYL GEISSMAN-WAISS LACTONE / CN

E7 1 N-ACETYL GLUCOSAMINE PHOSPHATE MUTASE (PLASMODIUM FALCIPARUM STRAIN 3D7 GENE PF11-0311) / CN

E8 1 N-ACETYL GLUCOSAMINE-1-PHOSPHATE URIDYLTRANSFERASE (ESCHERIC HIA COLI O157:H7 STRAIN EDL933 GENE GLMU) / CN

E9 1 N-ACETYL GLUCOSAMINE-1-PHOSPHATE URIDYLTRANSFERASE (ESCHERIC HIA COLI STRAIN O157:H7 GENE ECS4672) / CN

E10 1 N-ACETYL GLUCOSAMINE-1-PHOSPHATE URIDYLTRANSFERASE (SHIGELLA FLEXNERI STRAIN 2457T GENE GLMU) / CN

E11 1 N-ACETYL GLUCOSAMINE-1-PHOSPHATE URIDYLTRANSFERASE (SHIGELLA FLEXNERI STRAIN 301 GENE GLMU) / CN

E12 1 N-ACETYL GLUCOSAMINE-1-PHOSPHATE URIDYLTRANSFERASE (YERSINIA PESTIS STRAIN KIM GENE GLMU) / CN

=> e acetyl cysteine/cn

E1 1 ACETYL CYCLOHEXYLSULFONYL PEROXIDE / CN

E2 1 ACETYL CYCLOPENTYLSULFONYL PEROXIDE / CN

E3 0 --> ACETYL CYSTEINE / CN

E4 1 ACETYL DAPHNORETIN / CN

E5 1 ACETYL DECYL PHOSPHATE / CN

E6 1 ACETYL DEHYDROABIEATE / CN

E7 1 ACETYL DEXTRAN / CN

E8 1 ACETYL DIBUTYL PHOSPHITE / CN

E9 1 ACETYL DIETHYL PHOSPHITE / CN

E10 1 ACETYL DIISOPROPYL PHOSPHITE / CN

E11 1 ACETYL DIMETHYL PHOSPHATE/CN
E12 1 ACETYL DIMETHYL PHOSPHITE/CN

=> e acetylcysteine/cn

E1	1	ACETYL CYANOGLOSSOPHINE/CN
E2	1	ACETYL CYSTEAMINE/CN
E3	1	--> ACETYL CYSTEINE/CN
E4	1	ACETYL CYTOCHALASIN H/CN
E5	1	ACETYL DACTYLOIDIN/CN
E6	1	ACETYL DAPSONE/CN
E7	1	ACETYL DAUNOMYCIN/CN
E8	1	ACETYL DEAMINO-COA/CN
E9	1	ACETYL DECARBAMOYL SAXITOXIN/CN
E10	1	ACETYL DEGLUCOPTERO CEREINE HYDROCHLORIDE/CN
E11	1	ACETYL DEHYDRO-3-(2-FURYL) ALANYL TYROSINE/CN
E12	1	ACETYL DEHYDRO-3-(2-THIENYL) ALANYL TYROSINE/CN

=> s e3

L12 1 ACETYL CYSTEINE/CN

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE")
L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
E SEIDMAN M/AU
L4 141 S E3-E12
L5 11 S L4 AND (MITOCHONDRI?)
L6 4 S L4 AND (ANTIOXIDANT?)
L7 1 S L6 NOT L5
L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE")

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005

L9 1 S E3
E THIOCTIC ACID/CN
L10 1 S E3
E ACETYL-L-CARNITINE/CN
L11 1 S E3
E RESVERATROL/CN
E LECITHIN/CN
E N-ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
L12 1 S E3

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	19.69	139.58
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FILE COVERS 1907 - 23 Mar 2005 VOL 142 ISS 13
FILE LAST UPDATED: 22 Mar 2005 (20050322/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 19
L13 1450 L9

=> s 110
L14 826 L10

=> s 111
L15 1859 L11

=> s 112
L16 5712 L12

=> s lecithin? or phosphatidyl choline? or phosphatidylcholine? or (choline (W) phosphoglyceride?) or (choline (W) glycerophospholipid?)

38776 LECITHIN?
4381 PHOSPHATIDYL
4 PHOSPHATIDYLS
4384 PHOSPHATIDYL
(PHOSPHATIDYL OR PHOSPHATIDYLS)

104615 CHOLINE?
1109 PHOSPHATIDYL CHOLINE?
(PHOSPHATIDYL(W)CHOLINE?)

47555 PHOSPHATIDYLCHOLINE?

48333 CHOLINE
379 CHOLINES
48485 CHOLINE
(CHOLINE OR CHOLINES)

1288 PHOSPHOGLYCERIDE?
252 CHOLINE (W) PHOSPHOGLYCERIDE?

48333 CHOLINE
379 CHOLINES
48485 CHOLINE
(CHOLINE OR CHOLINES)

2276 GLYCEROPHOSPHOLIPID?
161 CHOLINE (W) GLYCEROPHOSPHOLIPID?

L17 78314 LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR (CHOLINE (W) PHOSPHOGLYCERIDE?) OR (CHOLINE (W) GLYCEROPHOSPHOLIPID?)

=> s (19 or 110) and 111 and 117 and 112
1450 L9
826 L10
1859 L11

5712 L12

L18 3 (L9 OR L10) AND L11 AND L17 AND L12

=> d 118 1-3 ibib ed abs

L18 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:271056 CAPLUS
DOCUMENT NUMBER: 136:299719
TITLE: Dietary supplement for promoting healthy hormonal balance
INVENTOR(S): Hastings, Carl W.; Barnes, David J.; Daley, Christine A.
PATENT ASSIGNEE(S): Reliv' International, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6368617	B1	20020409	US 2001-858047	20010515
PRIORITY APPLN. INFO.:			US 2001-858047	20010515

ED Entered STN: 11 Apr 2002

AB A dietary supplement for promoting healthy hormonal balance in adult human subjects, and especially in elderly subjects, comprises a secretagogue for stimulating the release of human growth hormone (hGH) by the pituitary, and the conversion by hGH to insulin-like growth factor 1 (IGF-1), in combination with 7-keto-dehydroepiandrosterone (7-keto DHEA). The dietary supplement also includes other interacting ingredients for delivering antioxidants for retarding damage at the cellular level caused by the presence of free radicals, and natural herbs for promoting physiol. health. For example, an essentially dry powder constituting a dietary supplement of this invention, to be dissolved in water to provide a daily serving, contained 7-keto-DHEA 25 mg, Symbiotropin 1000 mg, lecithin 200 mg, maltodextrin 7.227 mg, citric acid 640 mg, dipotassium phosphate 25 mg, potassium citrate 25 mg, probiotic blend 100 mg, fruко-oligosaccharides 400 mg, S-adenosyl-L-methionine 5 mg, acetyl-L-carnitine 100 mg, omega-3 fatty acids (Dry n-3) 125 mg, trimethylglycine 100 mg, coenzyme Q10 7.5 mg, resveratrol (Protylekin) 10 mg, α-lipoic acid 50 mg, L-glutathione 30 mg, N-acetylcysteine 200 mg, and flavoring agents 300 mg.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:741547 CAPLUS
DOCUMENT NUMBER: 135:293963
TITLE: Oral pharmaceuticals containing coenzyme Q with high dissolution qualities
INVENTOR(S): Chopra, Raj K.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6300377	B1	20011009	US 2001-790783	20010222
CA 2432020	AA	20020906	CA 2002-2432020	20020220

WO 2002067864	A2	20020906	WO 2002-US5970	20020220
WO 2002067864	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1505958	A2	20050216	EP 2002-721189	20020220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
RITY APPLN. INFO.:			US 2001-790783	A 20010222
			WO 2002-US5970	W 20020220

ED Entered STN: 11 Oct 2001

AB The present invention relates to a composition in liquid dosage form of coenzyme

Q or ubiquinone which can be formulated into cosmetic, dietary supplement or pharmaceutical dosage form for administration to patients. The dosage form comprises an effective amount of coenzyme Q or ubiquinone ranging from about 0.05 to about 15, more preferably about 1 to about 10.0 by weight of the composition in combination with a polysorbate surfactant such as a Tween®, surfactant, a vegetable oil or triglyceride, in further combination with a glyceryl ester in amts. effective to produce a liquid dosage form. Optional additives include a phospholipid such as hydroxylated lecithin, among others such as tocopherols or tocopherol esters effective to solubilize the ubiquinone in combination as well as other bioactive agents. Compns. according to the present invention avoid the inclusion of a polyhydric alc. solvent in solubilizing amts. A liquid dosage form contained coenzyme Q10 7, Tween 80 (Polysorbate 80) 38, Tributyrin (Glyceryl tributyrate) 19, medium chain triglycerides 19, and vitamin E alc. (or acetate) 17%. The formulation resulted in 100% dissoln.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:545461 CAPLUS

DOCUMENT NUMBER: 135:127168

TITLE: Reduced form of coenzyme Q in highly bioavailable stable dosage forms

INVENTOR(S) : Chopra, Raj K.

PATENT ASSIGNEE (S) : USA

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PTXXD2

DOCUMENT TYPE: Patent

DOCUMENT FILE: **1** DATE: **1/1/2018**
LANGUAGE: **English**

FAMILY ACC NUM COUNT: 1

FAMILY ACC. NUM. CO
PATENT INFORMATION:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001052822	A1	20010726	WO 2001-US1997	20010118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

US 6740338	B1	20040525	US 2000-488332	20000120
CA 2397447	AA	20010726	CA 2001-2397447	20010118
EP 1251834	A1	20021030	EP 2001-942547	20010118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-488332	A 20000120
			US 2000-637559	A 20000811
			WO 2001-US1997	W 20010118

OTHER SOURCE(S): MARPAT 135:127168

ED Entered STN: 27 Jul 2001

AB The present invention relates to a reduced form of coenzyme Q also known as ubiquinol in a pharmaceutical or cosmetic dosage form, preferably an oral dosage form such as a gelatin capsule. Compns. according to the present invention show high bioavailability of the reduced form of Coenzyme Q. The present invention relates to storage stable compns. comprising effective amts. of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated as in, e.g., capsules, tablets and other orally administrable form. A capsule formulation contained vitamin E acetate 6, hydroxylated lecithin 4, phosphatidylcholine 32, medium-chain triglyceride 20, Gelucire 30, coenzyme Q10 4, and ascorbyl palmitate 4%.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 19 and 111 and 117 and 112

1450 L9

1859 L11

5712 L12

L19 0 L9 AND L11 AND L17 AND L12

=> s 110 and 111 and 117 and 112

826 L10

1859 L11

5712 L12

L20 3 L10 AND L11 AND L17 AND L12

=> s 120 not 118

L21 0 L20 NOT L18

=> s 19 and 111

1450 L9

1859 L11

L22 2 L9 AND L11

=> d 122 1-2

L22 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:633437 CAPLUS

DN 141:170044

TI Oral compositions and methods for treatment of adverse effects or radiation

IN Rosenbloom, Richard A.

PA The Quigley Corporation, USA

SO PCT Int. Appl., 26 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004064725	A2	20040805	WO 2003-US39341	20031210
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,				

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
 UG, UZ, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ,
 BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE,
 ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK,
 TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRAI US 2003-341508 A 20030113

L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AN 2000:645846 CAPLUS
 DN 133:242652
 TI Pharmaceutical, dietetic and cosmetic compositions based on tioctic acid
 and cysteine
 IN Dall'aglio, Roberto; Borgonovo, Margherita; Introini, Carlo; Melegari,
 Pierangelo
 PA Uni-Ci S.R.L., Italy
 SO PCT Int. Appl., 48 pp.
 CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000053176	A1	20000914	WO 2000-EP1637	20000228
	W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	IT 1312377	B1	20020415	IT 1999-MI460	19990305
	EP 1156802	A1	20011128	EP 2000-907644	20000228
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	EP 1072310	A3	20030108	EP 2000-113660	20000628
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
PRAI	IT 1999-MI460	A	19990305		
	WO 2000-EP1637	W	20000228		

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 122 2 abs

L22 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
 AB Novel pharmaceutic, dietetic and cosmetic compns., based on tioctic acid
 and cysteine and/or a pharmaceutically, dietetically or cosmetically
 acceptable derivative thereof, useful for the prevention and treatment of
 conditions caused by oxidative stresses and alterations of both aerobic
 and anaerobic energetic metabolism by activation of mitochondrial energetic
 enzyme systems (glycolysis and lipolysis) are described. Capsules were
 filled with N-acetylcysteine (I) 200, magnesium hydroxide 150, and tioctic
 acid (II) 200 mg. Capsules were orally administered to athletes for 60
 days at 10 mg/kg/day of I and II. There was a decrease of 4% in body weight
 and 7% in body fat and an improvement of 3% proteic mass of muscles.

=> file medline biosis caplus embase wpids

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	31.32	170.90
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.92	-12.41

FILE 'MEDLINE' ENTERED AT 10:05:12 ON 23 MAR 2005

FILE 'BIOSIS' ENTERED AT 10:05:12 ON 23 MAR 2005
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FILE 'CAPLUS' ENTERED AT 10:05:12 ON 23 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'EMBASE' ENTERED AT 10:05:12 ON 23 MAR 2005
COPYRIGHT (C) 2005 Elsevier Inc. All rights reserved.

FILE 'WPIDS' ENTERED AT 10:05:12 ON 23 MAR 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

=> s (alpha lipoic acid?) or (lipoic acid?) or thioctic acid? or
"1,2-dithiolane-3-pentanoic acid"

3 FILES SEARCHED...

L23 10890 (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR
"1,2-DITHIOLANE-3-PENTANOIC ACID"

=> s resveratrol? or "ko-jo-kon" or "3,4',5-stilbenetriol" or
"3,5,4'-trihydroxystilbene" or (trans (W) resveratrol?) or (resveratrol sulfate?)
or (resveratrol sulphate?) or polyphenol? or (red grape extract?) or (grape skin
extract?)

L24 58333 RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5,4'
-TRIHYDROXYSTILBENE" OR (TRANS (W) RESVERATROL?) OR (RESVERATROL
SULFATE?) OR (RESVERATROL SULPHATE?) OR POLYPHENOL? OR (RED
GRAPE EXTRACT?) OR (GRAPE SKIN EXTRACT?)

=> s (phosphatidyl (W) choline?) or (phosphatidylcholine?) or (choline (W)
phosphoglyceride?) or lecithin? or (choline (W) glycerophospholipid?)
L25 198733 (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHOLIN
E (W) PHOSPHOGLYCERIDE?) OR LECITHIN? OR (CHOLINE (W) GLYCEROPHO
SPHOLIPID?)

=> s acetylcarnitine? or (acetyl (W) carnitine?) or medosan? or
"acetyl-L-carnitine" or alcar? or branigen? or (levocarnitine (W) acetyl?)
L26 5261 ACETYLCARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "ACET
YL-L-CARNITINE" OR ALCAR? OR BRANIGEN? OR (LEVOCARNITINE (W)
ACETYL?)

=> s acetylcystein? or mercapturic acid? or acemuc? or acetabs? or acetylin? or
acetyst? or airbron? or alveolex? or azubronchin? or bisolvon? or bromuc? or
"broncho-fips" or broncholysin? or broncoclar? or codotussyl? or cystamucil? or
(dampo (W) mucopect)

L27 32758 ACETYLCYSTEIN? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
ACETYLIN? OR ACETYST? OR AIRBRON? OR ALVEOLEX? OR AZUBRONCHIN?
OR BISOLVON? OR BROMUC? OR "BRONCHO-FIPS" OR BRONCHOLYSIN? OR
BRONCOCLAR? OR CODOTUSSYL? OR CYSTAMUCIL? OR (DAMPO (W) MUCOPECT
)

=> s eurespiran? or exomuc? or fabrol? or fluimicil? or fluprowit? or frekatuss? or
genax? or hoestil? or ilube? or jenacystein? or jenapharm? or lantamed? or larylin?
or lindocetyl? or "M-Pectil" or muciteran? or (muco sanigen?) or mucomyst? or
mucosil? or mucosol?

L28 1478 EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
OR FREKATUSS? OR GENAX? OR HOESTIL? OR ILUBE? OR JENACYSTEIN?
OR JENAPHARM? OR LANTAMED? OR LARYLIN? OR LINDOCETYL? OR "M-PECT
IL" OR MUCITERAN? OR (MUCO SANIGEN?) OR MUCOMYST? OR MUCOSIL?
OR MUCOSOL?

=> s mucosolvin? or (N (W) acetyl (W) L (W) cysteine) or "N-acetyl-L-cysteine" or
(N (W) acetyl (W) cysteine) or "N-acetylcysteine" or siccral? or siran? or
solmucol?

L29 26500 MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL-L-
CYSTEINE" OR (N (W) ACETYL (W) CYSTEINE) OR "N-ACETYLCYSTEINE"
OR SICCRAL? OR SIRAN? OR SOLMUCOL?

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	59.97	72.15
NETWORK CHARGES	1.20	3.24
SEARCH CHARGES	219.24	326.47
DISPLAY CHARGES	0.00	49.45
-----		-----
FULL ESTIMATED COST	280.41	451.31
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-12.41

IN FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' AT 10:17:55 ON 23 MAR 2005

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
E SEIDMAN M/AU
L4 141 S E3-E12
L5 11 S L4 AND (MITOCHONDRI?)
L6 4 S L4 AND (ANTIOXIDANT?)
L7 1 S L6 NOT L5
L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE")

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005

E ALPHA LIPOIC ACID/CN
E THIOCTIC ACID/CN
L9 1 S E3
E ACETYL-L-CARNITINE/CN
L10 1 S E3
E RESVERATROL/CN
L11 1 S E3
E LECITHIN/CN
E N-ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
E ACETYLCYSTEINE/CN
L12 1 S E3

FILE 'CAPLUS' ENTERED AT 09:59:30 ON 23 MAR 2005

L13 1450 S L9
 L14 826 S L10
 L15 1859 S L11
 L16 5712 S L12
 L17 78314 S LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR
 L18 3 S (L9 OR L10) AND L11 AND L17 AND L12
 L19 0 S L9 AND L11 AND L17 AND L12
 L20 3 S L10 AND L11 AND L17 AND L12
 L21 0 S L20 NOT L18
 L22 2 S L9 AND L11

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:05:12 ON 23
MAR 2005

L23 10890 S (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR "
 L24 58333 S RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5
 L25 198733 S (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHO
 L26 5261 S ACETYL CARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "A
 L27 32758 S ACETYL CYSTEIN? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
 L28 1478 S EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
 L29 26500 S MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL

=> s 127 or 128 or 129
L30 40161 L27 OR L28 OR L29

=> s 123 and 124 and 125 and 126 and 130
L31 5 L23 AND L24 AND L25 AND L26 AND L30

=> dup rem 131
PROCESSING COMPLETED FOR L31
L32 4 DUP REM L31 (1 DUPLICATE REMOVED)
ANSWERS '1-3' FROM FILE CAPLUS
ANSWER '4' FROM FILE WPIDS

=> d 132 1-4 ibib ed abs

L32 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
 ACCESSION NUMBER: 2001:741547 CAPLUS
 DOCUMENT NUMBER: 135:293963
 TITLE: Oral pharmaceuticals containing coenzyme Q with high
 dissolution qualities
 INVENTOR(S): Chopra, Raj K.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 11 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6300377	B1	20011009	US 2001-790783	20010222
CA 2432020	AA	20020906	CA 2002-2432020	20020220
WO 2002067864	A2	20020906	WO 2002-US5970	20020220
WO 2002067864	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

EP 1505958	A2	20050216	EP 2002-721189	20020220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2001-790783	A 20010222
			WO 2002-US5970	W 20020220

ED Entered STN: 11 Oct 2001

AB The present invention relates to a composition in liquid dosage form of coenzyme

Q or ubiquinone which can be formulated into cosmetic, dietary supplement or pharmaceutical dosage form for administration to patients. The dosage form comprises an effective amount of coenzyme Q or ubiquinone ranging from about 0.05 to about 15, more preferably about 1 to about 10.0 by weight of the composition in combination with a polysorbate surfactant such as a Tween®, surfactant, a vegetable oil or triglyceride, in further combination with a glyceryl ester in amts. effective to produce a liquid dosage form. Optional additives include a phospholipid such as hydroxylated lecithin, among others such as tocopherols or tocopherol esters effective to solubilize the ubiquinone in combination as well as other bioactive agents. Compns. according to the present invention avoid the inclusion of a polyhydric alc. solvent in solubilizing amts. A liquid dosage form contained coenzyme Q10 7, Tween 80 (Polysorbate 80) 38, Tributyrin (Glyceryl tributyrate) 19, medium chain triglycerides 19, and vitamin E alc. (or acetate) 17%. The formulation resulted in 100% dissoln.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2002:271056 CAPLUS
 DOCUMENT NUMBER: 136:299719
 TITLE: Dietary supplement for promoting healthy hormonal balance
 INVENTOR(S): Hastings, Carl W.; Barnes, David J.; Daley, Christine A.
 PATENT ASSIGNEE(S): Reliv' International, Inc., USA
 SOURCE: U.S., 5 pp.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6368617	B1	20020409	US 2001-858047	20010515

PRIORITY APPLN. INFO.:

ED Entered STN: 11 Apr 2002

AB A dietary supplement for promoting healthy hormonal balance in adult human subjects, and especially in elderly subjects, comprises a secretagogue for stimulating the release of human growth hormone (hGH) by the pituitary, and the conversion by hGH to insulin-like growth factor 1 (IGF-1), in combination with 7-keto-dehydroepiandrosterone (7-keto DHEA). The dietary supplement also includes other interacting ingredients for delivering antioxidants for retarding damage at the cellular level caused by the presence of free radicals, and natural herbs for promoting physiol. health. For example, an essentially dry powder constituting a dietary supplement of this invention, to be dissolved in water to provide a daily serving, contained 7-keto-DHEA 25 mg, Symbiotropin 1000 mg, lecithin 200 mg, maltodextrin 7.227 mg, citric acid 640 mg, dipotassium phosphate 25 mg, potassium citrate 25 mg, probiotic blend 100 mg, fruco-oligosaccharides 400 mg, S-adenosyl-L-methionine 5 mg, acetyl-L-carnitine 100 mg, omega-3 fatty acids (Dry n-3) 125 mg, trimethylglycine 100 mg, coenzyme Q10 7.5 mg, resveratrol (Prottykin) 10 mg, .alpha.-lipoic

acid 50 mg, L-glutathione 30 mg, N-
acetylcysteine 200 mg, and flavoring agents 300 mg.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:545461 CAPLUS
DOCUMENT NUMBER: 135:127168
TITLE: Reduced form of coenzyme Q in highly bioavailable stable dosage forms
INVENTOR(S): Chopra, Raj K.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001052822	A1	20010726	WO 2001-US1997	20010118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6740338	B1	20040525	US 2000-488332	20000120
CA 2397447	AA	20010726	CA 2001-2397447	20010118
EP 1251834	A1	20021030	EP 2001-942547	20010118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-488332	A 20000120
			US 2000-637559	A 20000811
			WO 2001-US1997	W 20010118

OTHER SOURCE(S): MARPAT 135:127168

ED Entered STN: 27 Jul 2001

AB The present invention relates to a reduced form of coenzyme Q also known as ubiquinol in a pharmaceutical or cosmetic dosage form, preferably an oral dosage form such as a gelatin capsule. Compns. according to the present invention show high bioavailability of the reduced form of Coenzyme Q. The present invention relates to storage stable compns. comprising effective amts. of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated as in, e.g., capsules, tablets and other orally administrable form. A capsule formulation contained vitamin E acetate 6, hydroxylated lecithin 4, phosphatidylcholine 32, medium-chain triglyceride 20, Gelucire 30, coenzyme Q10 4, and ascorbyl palmitate 4%.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L32 ANSWER 4 OF 4 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 2004-224109 [21] WPIDS
DOC. NO. CPI: C2004-088343
TITLE: Nutritional supplement composition useful for anti-aging comprises nutritional supplements e.g. vitamin, mineral, blood sugar/insulin support, botanical antioxidant, methylating factor, DNA repair agent, fat metabolizer.
DERWENT CLASS: A11 A25 A96 B04 D13
INVENTOR(S): GIAMPAPA, V C

PATENT ASSIGNEE(S): (GIAM-I) GIAMPAPA V C

COUNTRY COUNT: 108

PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2004001817	A1	20040101	(200421)*	25	
WO 2004100896	A2	20041125	(200478)	EN	
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2004001817	A1 Provisional	US 2002-378160P	20020514
		US 2003-438247	20030513
WO 2004100896	A2	WO 2004-US14791	20040511

PRIORITY APPLN. INFO: US 2002-378160P 20020514; US
2003-438247 20030513

ED 20040326

AN 2004-224109 [21] WPIDS

AB US2004001817 A UPAB: 20040326

NOVELTY - An anti-aging nutritional supplement composition (C1) comprises vitamin (a); mineral (b); a blood sugar/insulin support (c); botanical antioxidant (d); a methylating factor (e); a DNA repair agent (f); a fat metabolizer (g); an absorption enhancer (h); a brain function support (i); a cellular energizer (j); a nucleotide precursor (k); amino acid (l); a fatty acid complex (m); a probiotic complex (n); and digestive enzyme (o).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an anti-aging nutritional supplement system (S1) comprising a first nutritional supplement composition (F1) to be administered in the morning containing (a) including vitamin A (3600 IU), vitamin C (200 mg), vitamin D (80 IU), vitamin E (100 IU), vitamin K (150 mcg), thiamin (10 mg), riboflavin (8 mg), niacin (140 mg), vitamin B6 (24 mg), folate (100 mcg), vitamin B12 (160 mcg), biotin (100 mcg) or pantothenic acid (24 mg); (b) including calcium (600 mg), iodine (60 mcg), zinc (4 mg), selenium (60 mcg), copper (0.4 mg), manganese (0.4 mg), chromium (100 mcg) or molybdenum (20 mcg); inflammatory process support (p) (100 mg); (c) including a blend of vanadium (50 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (80 mg); (d) including green tea leaf extract (100 mg), anthocyanins (10 mg), ginkgo biloba leaf extract (100 mg) or guarana seed extract (80 mg); (e) including betaine HCl (8 mg) or sulfur (2.5 mg); (f) (175 mg); (g) (50 mg); (h) (50 mg); (i) (50 mg); whole food (q) (300 mg); (j) including *Cardyceps sinensis* fungus extract (1% cordycepic acid) (25 mg) and royal jelly 3 multiply (5% 10-HAD) (20 mg); (k) (50 mg); (l) (275 mg); (m) (400 mg) and (o) (1760 unit); a second nutritional supplement composition (F2) to be administered at midday, containing (a) including vitamin A (2400 IU), vitamin C (160 mg), vitamin D (40 IU), vitamin E (65 IU), vitamin K (150 mcg), thiamin (12 mg), riboflavin (1 mg), niacin (140 mg), vitamin B6 (4 mg), folate (65 mcg), vitamin B12 (200 mcg), biotin (65 mcg) or pantothenic acid (32 mg); (b) including calcium (200 mg), iodine (15 mcg), zinc (2.5 mg), selenium (40 mcg), copper (0.2 mg), manganese (0.2 mg), chromium (40 mcg) or molybdenum (12 mcg); (p) (100 mg); (c) including a blend of vanadium (32 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (55 mg); (d) including

ginkgo biloba leaf extract (100 mg) or guarana seed extract (16 mg); (e) including betaine HCl (6.4 mg) or sulfur (1.5 mg); (g) (400 mg); (h) (50 mg); (i) (50 mg); (q) (150 mg); (j) *Cardyceps sinensis* fungus extract (1% cordycepic acid) (20 mg) or royal jelly 3 multiply (5% 10-HAD) (12 mg); (k) (50 mg); (l) (225 mg); (m) (400 mg); and (o) (1408 unit); and third nutritional supplement composition (F3) to be administered in the night containing (a) including vitamin A (2800 IU), vitamin C (400 mg), vitamin D (60 IU), vitamin E (80 IU), vitamin K (150 mcg), thiamin (5 mg), riboflavin (10 mg), niacin (140 mg), vitamin B6 (15 mg), folate (160 mcg), vitamin B12 (240 mcg), biotin (80 mcg) or pantothenic acid (40 mg); (b) including calcium (215 mg), iodine (24 mcg), magnesium (265 mg), zinc (3 mg), selenium (48 mcg), copper (0.2 mg), manganese (0.2 mg), chromium (80 mcg), molybdenum (16 mcg); (p) (100 mg); (c) including a blend of vanadium (40 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (67 mg); (d) (147 mg); (e) including betaine HCl (5 mg), sulfur (2 mg); (f) (175 mg); (g) (30 mg); (h) (40 mg); (i) (161 mg); (q) (140 mg); (j) *Cardyceps sinensis* fungus extract (1% cordycepic acid) (16.5 mg) and royal jelly 3 multiply (5% 10-HAD) (18 mg); (k) (50 mg); (l) (1148 mg); (m) (400 mg), (n) (100 million CFU) and (o) (1169 units).

ACTIVITY - Nootropic.

MECHANISM OF ACTION - NF- κ B inhibitor.

USE - For anti-aging treatment (claimed).

ADVANTAGE - (C1) supplies nutritional supplements necessary for proper glycation, DNA methylation, anti-oxidation and control of inflammatory processes; decreases DNA damage, increases DNA repair; improves immune function of human body; maintains proper cell metabolism and body function; assists in cellular regeneration and immune system repair; increases the digestive and metabolic capabilities of the body; maximizes metabolism, proper hormonal formation, release and utilization of supplements of vitamin, mineral ad nutrient supplement system; provides appropriate acidity to both the extracellular and intracellular matrices. The improved ratio of DNA repair over DNA damage results in less cell mutations and more accurate cell copies during cell replication, thus preserving adult stem pods. (C1) applies synergistic effect obtained from the combination of C-MED-100 (RTM; Cat's claw) and other nutritional supplements.

Dwg.0/8

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
E SEIDMAN M/AU
L4 141 S E3-E12
L5 11 S L4 AND (MITOCHONDRI?)
L6 4 S L4 AND (ANTIOXIDANT?)
L7 1 S L6 NOT L5
L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE")

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005

E ALPHA LIPOIC ACID/CN
E THIOCTIC ACID/CN
L9 1 S E3
E ACETYL-L-CARNITINE/CN

L10 1 S E3
E RESVERATROL/CN
L11 1 S E3
E LECITHIN/CN
E N-ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
L12 1 S E3

FILE 'CAPLUS' ENTERED AT 09:59:30 ON 23 MAR 2005
L13 1450 S L9
L14 826 S L10
L15 1859 S L11
L16 5712 S L12
L17 78314 S LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR
L18 3 S (L9 OR L10) AND L11 AND L17 AND L12
L19 0 S L9 AND L11 AND L17 AND L12
L20 3 S L10 AND L11 AND L17 AND L12
L21 0 S L20 NOT L18
L22 2 S L9 AND L11

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:05:12 ON 23
MAR 2005
L23 10890 S (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR "
L24 58333 S RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5
L25 198733 S (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHO
L26 5261 S ACETYL CARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "A
L27 32758 S ACETYL CYSTEIN? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
L28 1478 S EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
L29 26500 S MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL
L30 40161 S L27 OR L28 OR L29
L31 5 S L23 AND L24 AND L25 AND L26 AND L30
L32 4 DUP REM L31 (1 DUPLICATE REMOVED)

=> s 123 and 124 and 125 and 130
L33 11 L23 AND L24 AND L25 AND L30

=> dup rem 133
PROCESSING COMPLETED FOR L33
L34 8 DUP REM L33 (3 DUPLICATES REMOVED)
ANSWERS '1-5' FROM FILE CAPLUS
ANSWERS '6-7' FROM FILE EMBASE
ANSWER '8' FROM FILE WPIDS

=> d 134 1-8 ibib ed abs

L34 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2004:964970 CAPLUS
DOCUMENT NUMBER: 141:407236
TITLE: Treatment of plants and plant propagation materials
with an antioxidant and pesticide to improve plant
health and/or yield
INVENTOR(S): Asrar, Jawed; Ding, Yiwei; Bourque, June E.; Sanders,
Ernest F.
PATENT ASSIGNEE(S): Monsanto Technology, LLC, USA
SOURCE: PCT Int. Appl., 79 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2004095926	A2	20041111	WO 2004-US10720	20040407
WO 2004095926	A3	20050127		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

US 2004259732	A1	20041223	US 2004-832578	20040427
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PRIORITY APPLN. INFO.:		US 2003-466104P	P	20030428
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ED Entered STN: 12 Nov 2004

AB Methods and compns. are described for the treatment of plants and plant propagation materials with an antioxidant alone or in combination with a pesticide for improved germination rates. Plants that grow from treated plant propagation materials, or plants that are treated directly, show improved stand d. or vigor, and/or improved yields.

L34 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2004:633154 CAPLUS

DOCUMENT NUMBER: 141:167729

TITLE: Gastrointestinal glutathione peroxidase as therapeutic target for treatment of HCV infection, methods of treating HCV infection, and compounds useful therefor

INVENTOR(S): Herget, Thomas; Cotten, Matthew; Obert, Sabine; Klebl, Bert

PATENT ASSIGNEE(S): Germany

SOURCE: U.S. Pat. Appl. Publ., 24 pp., Cont.-in-part of U.S. Pat. Appl. 2003 180,719.

CODEN: USXXCO

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 4

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004152073	A1	20040805	US 2003-723719	20031126
WO 2002084294	A2	20021024	WO 2002-EP4167	20020415
WO 2002084294	A3	20031030		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10255861	A1	20040617	DE 2002-10255861	20021129
US 2003180719	A1	20030925	US 2003-342054	20030114
PRIORITY APPLN. INFO.:			US 2001-283345P	P 20010413
			WO 2002-EP4167	A2 20020415
			DE 2002-10255861	A 20021129
			US 2002-430367P	P 20021203
			US 2003-342054	A2 20030114

ED Entered STN: 06 Aug 2004

AB The present invention relates to the human cellular protein glutathione peroxidase-gastrointestinal as a target for medical intervention against

Hepatitis C virus (HCV) infections. Furthermore, the present invention relates to a method for the detection of compds. useful for prophylaxis and/or treatment of hepatitis C virus infections and a method for detecting hepatitis C virus infections in an individual or in cells. Also compns., compds., nucleic acid mols. (such as aptamers), mono- or polyclonal antibodies are disclosed which are effective for the treatment of HCV infections, and methods for prophylaxis and/or treatment of hepatitis C virus infections or for the regulation of hepatitis C virus production are disclosed. The inventors designed a randomized, single-blinded clin. study to test the safety, tolerability, and efficacy of all-trans retinoic acid alone or in combination with pegylated α interferon in patients with chronic hepatitis C. The therapy regimens include: Vesanoid (orally administered all-trans retinoic acid compound, Hoffman-La Roche); Pegasys (slow-release pegylated interferon α 2a, Hoffman-La Roche); and selen 30 ALLACT (supplement containing selenium and ALLACT composed of garlic powder and Lactobacillus bulgaricus).

L34 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3

ACCESSION NUMBER: 2001:741547 CAPLUS
 DOCUMENT NUMBER: 135:293963
 TITLE: Oral pharmaceuticals containing coenzyme Q with high dissolution qualities
 INVENTOR(S): Chopra, Raj K.
 PATENT ASSIGNEE(S): USA
 SOURCE: U.S., 11 pp.
 CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6300377	B1	20011009	US 2001-790783	20010222
CA 2432020	AA	20020906	CA 2002-2432020	20020220
WO 2002067864	A2	20020906	WO 2002-US5970	20020220
WO 2002067864	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1505958	A2	20050216	EP 2002-721189	20020220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2001-790783	A 20010222
			WO 2002-US5970	W 20020220

ED Entered STN: 11 Oct 2001

AB The present invention relates to a composition in liquid dosage form of coenzyme

Q or ubiquinone which can be formulated into cosmetic, dietary supplement or pharmaceutical dosage form for administration to patients. The dosage form comprises an effective amount of coenzyme Q or ubiquinone ranging from about 0.05 to about 15, more preferably about 1 to about 10.0 by weight of the composition in combination with a polysorbate surfactant such as a Tween®, surfactant, a vegetable oil or triglyceride, in further combination with a glyceryl ester in amts. effective to produce a liquid dosage form. Optional additives include a phospholipid such as hydroxylated lecithin, among others such as tocopherols or tocopherol esters effective to solubilize the ubiquinone in combination as

well as other bioactive agents. Compns. according to the present invention avoid the inclusion of a polyhydric alc. solvent in solubilizing amts. A liquid dosage form contained coenzyme Q10 7, Tween 80 (Polysorbate 80) 38, Tributyrin (Glyceryl tributyrate) 19, medium chain triglycerides 19, and vitamin E alc. (or acetate) 17%. The formulation resulted in 100% dissoln.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:271056 CAPLUS
DOCUMENT NUMBER: 136:299719
TITLE: Dietary supplement for promoting healthy hormonal balance
INVENTOR(S): Hastings, Carl W.; Barnes, David J.; Daley, Christine A.
PATENT ASSIGNEE(S): Reliv' International, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6368617	B1	20020409	US 2001-858047	20010515
PRIORITY APPLN. INFO.:			US 2001-858047	20010515

ED Entered STN: 11 Apr 2002

AB A dietary supplement for promoting healthy hormonal balance in adult human subjects, and especially in elderly subjects, comprises a secretagogue for stimulating the release of human growth hormone (hGH) by the pituitary, and the conversion by hGH to insulin-like growth factor 1 (IGF-1), in combination with 7-keto-dehydroepiandrosterone (7-keto DHEA). The dietary supplement also includes other interacting ingredients for delivering antioxidants for retarding damage at the cellular level caused by the presence of free radicals, and natural herbs for promoting physiol. health. For example, an essentially dry powder constituting a dietary supplement of this invention, to be dissolved in water to provide a daily serving, contained 7-keto-DHEA 25 mg, Symbiotropin 1000 mg, lecithin 200 mg, maltodextrin 7.227 mg, citric acid 640 mg, dipotassium phosphate 25 mg, potassium citrate 25 mg, probiotic blend 100 mg, fruco-oligosaccharides 400 mg, S-adenosyl-L-methionine 5 mg, acetyl-L-carnitine 100 mg, omega-3 fatty acids (Dry n-3) 125 mg, trimethylglycine 100 mg, coenzyme Q10 7.5 mg, resveratrol (Prottykin) 10 mg, alpha.-lipoic acid 50 mg, L-glutathione 30 mg, N-acetylcysteine 200 mg, and flavoring agents 300 mg.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L34 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:545461 CAPLUS
DOCUMENT NUMBER: 135:127168
TITLE: Reduced form of coenzyme Q in highly bioavailable stable dosage forms
INVENTOR(S): Chopra, Raj K.
PATENT ASSIGNEE(S): USA
SOURCE: PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001052822	A1	20010726	WO 2001-US1997	20010118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6740338	B1	20040525	US 2000-488332	20000120
CA 2397447	AA	20010726	CA 2001-2397447	20010118
EP 1251834	A1	20021030	EP 2001-942547	20010118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
PRIORITY APPLN. INFO.:			US 2000-488332	A 20000120
			US 2000-637559	A 20000811
			WO 2001-US1997	W 20010118
OTHER SOURCE(S):	MARPAT 135:127168			
ED	Entered STN: 27 Jul 2001			
AB	The present invention relates to a reduced form of coenzyme Q also known as ubiquinol in a pharmaceutical or cosmetic dosage form, preferably an oral dosage form such as a gelatin capsule. Compns. according to the present invention show high bioavailability of the reduced form of Coenzyme Q. The present invention relates to storage stable compns. comprising effective amts. of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated as in, e.g., capsules, tablets and other orally administrable form. A capsule formulation contained vitamin E acetate 6, hydroxylated lecithin 4, phosphatidylcholine 32, medium-chain triglyceride 20, Gelucire 30, coenzyme Q10 4, and ascorbyl palmitate 4%.			
REFERENCE COUNT:	2	THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT		

L34 ANSWER 6 OF 8 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 2004432899 EMBASE

TITLE: Intratympanic treatment of hearing loss with novel and traditional agents.

AUTHOR: Seidman M.D.; Vivek P.

CORPORATE SOURCE: Dr. M.D. Seidman, Dept. Otolaryngol.-Hd. Neck Surg., Henry Ford Medical Center, 2799 West Grand Boulevard, 48202, Detroit, MI, United States. mseidmal@hfhs.org

SOURCE: Otolaryngologic Clinics of North America, (2004) 37/5 (973-990).
Refs: 164
ISSN: 0030-6665 CODEN: OCNABW
PUBLISHER IDENT.: S 0030-6665(04)00083-0

COUNTRY: United States

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 011 Otorhinolaryngology
037 Drug Literature Index
038 Adverse Reactions Titles

LANGUAGE: English

SUMMARY LANGUAGE: English

AB As knowledge of the cellular and molecular pathophysiology behind otopathologies expands, the possibility exists of preventing sensorineural hearing loss and perhaps reversing the loss. Cellular and molecular mechanisms seem to be similar in hearing loss secondary to aging, drug ototoxicity, noise, or other mechanisms. A final common pathway may hinge upon apoptosis. It is likely that anti-apoptotic factors will increasingly

be realized as an important intervention strategy for sensorineural hearing loss. Furthermore, it is also possible that mounting a staged attack at the various regions in the pathway leading to cellular damage using a combination of several protective substances such as steroids, antioxidants, neurotrophic factors, anti-apoptotic compounds, and mitochondrial enhancers may prevent hearing loss and even reverse it in some situations. This article has presented some of the molecular and cellular mechanisms for hearing loss and potential ways of treating them. In theory, the delivery of these medications to the inner ear transtympanically would decrease systemic side effects and be more target specific. Because most of the studies conducted to date have been animal studies, randomized, double-blind, placebo-controlled clinical trials would be necessary before the use of these therapies becomes common practice.

L34 ANSWER 7 OF 8 EMBASE COPYRIGHT 2005 ELSEVIER INC. ALL RIGHTS RESERVED.
on STN

ACCESSION NUMBER: 2005027271 EMBASE
TITLE: Identification of diseases that may be targets for complementary and alternative medicine (CAM).
AUTHOR: Vojdani A.; Cooper E.L.
CORPORATE SOURCE: Dr. A. Vojdani, 8693 Wilshire Blvd., Beverly Hills, CA 90211, United States
SOURCE: Advances in Experimental Medicine and Biology, (2004) 546/- (75-104).
Refs: 113
ISSN: 0065-2598 CODEN: AEMBAP
COUNTRY: United States
DOCUMENT TYPE: Journal; Conference Article
FILE SEGMENT: 006 Internal Medicine
008 Neurology and Neurosurgery
048 Gastroenterology
LANGUAGE: English

L34 ANSWER 8 OF 8 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 2004-224109 [21] WPIDS
DOC. NO. CPI: C2004-088343
TITLE: Nutritional supplement composition useful for anti-aging comprises nutritional supplements e.g. vitamin, mineral, blood sugar/insulin support, botanical antioxidant, methylating factor, DNA repair agent, fat metabolizer.
DERWENT CLASS: A11 A25 A96 B04 D13
INVENTOR(S): GIAMPAPA, V C
PATENT ASSIGNEE(S): (GIAM-I) GIAMPAPA V C
COUNTRY COUNT: 108
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2004001817	A1	20040101	(200421)*	25	
WO 2004100896	A2	20041125	(200478)	EN	
RW: AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IT KE					
LS LU MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE					
DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG					
KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NA NI NO NZ					
OM PG PH PL PT RO RU SC SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG					
US UZ VC VN YU ZA ZM ZW					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2004001817	A1 Provisional	US 2002-378160P	20020514

PRIORITY APPLN. INFO: US 2002-378160P 20020514; US
2003-438247 20030513

ED 20040326

AN 2004-224109 [21] WPIDS

AB US2004001817 A UPAB: 20040326

NOVELTY - An anti-aging nutritional supplement composition (C1) comprises vitamin (a); mineral (b); a blood sugar/insulin support (c); botanical antioxidant (d); a methylating factor (e); a DNA repair agent (f); a fat metabolizer (g); an absorption enhancer (h); a brain function support (i); a cellular energizer (j); a nucleotide precursor (k); amino acid (l); a fatty acid complex (m); a probiotic complex (n); and digestive enzyme (o).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for an anti-aging nutritional supplement system (S1) comprising a first nutritional supplement composition (F1) to be administered in the morning containing (a) including vitamin A (3600 IU), vitamin C (200 mg), vitamin D (80 IU), vitamin E (100 IU), vitamin K (150 mcg), thiamin (10 mg), riboflavin (8 mg), niacin (140 mg), vitamin B6 (24 mg), folate (100 mcg), vitamin B12 (160 mcg), biotin (100 mcg) or pantothenic acid (24 mg); (b) including calcium (600 mg), iodine (60 mcg), zinc (4 mg), selenium (60 mcg), copper (0.4 mg), manganese (0.4 mg), chromium (100 mcg) or molybdenum (20 mcg); inflammatory process support (p) (100 mg); (c) including a blend of vanadium (50 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (80 mg);

(d) including green tea leaf extract (100 mg), anthocyanins (10 mg), ginkgo biloba leaf extract (100 mg) or guarana seed extract (80 mg); (e) including betaine HCl (8 mg) or sulfur (2.5 mg); (f) (175 mg); (g) (50 mg); (h) (50 mg); (i) (50 mg); whole food (q) (300 mg); (j) including *Cardyceps sinensis* fungus extract (1% cordycepic acid) (25 mg) and royal jelly 3 multiply (5% 10-HAD) (20 mg); (k) (50 mg); (l) (275 mg); (m) (400 mg) and (o) (1760 unit); a second nutritional supplement composition (F2) to be administered at midday, containing (a) including vitamin A (2400 IU), vitamin C (160 mg), vitamin D (40 IU), vitamin E (65 IU), vitamin K (150 mcg), thiamin (12 mg), riboflavin (1 mg), niacin (140 mg), vitamin B6 (4 mg), folate (65 mcg), vitamin B12 (200 mcg), biotin (65 mcg) or pantothenic acid (32 mg); (b) including calcium (200 mg), iodine (15 mcg), zinc (2.5 mg), selenium (40 mcg), copper (0.2 mg), manganese (0.2 mg), chromium (40 mcg) or molybdenum (12 mcg); (p) (100 mg); (c) including a blend of vanadium (32 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (55 mg); (d) including

ginkgo biloba leaf extract (100 mg) or guarana seed extract (16 mg); (e) including betaine HCl (6.4 mg) or sulfur (1.5 mg); (g) (400 mg); (h) (50 mg); (i) (50 mg); (q) (150 mg); (j) *Cardyceps sinensis* fungus extract (1% cordycepic acid) (20 mg) or royal jelly 3 multiply (5% 10-HAD) (12 mg); (k) (50 mg); (l) (225 mg); (m) (400 mg); and (o) (1408 unit); and third nutritional supplement composition (F3) to be administered in the night containing (a) including vitamin A (2800 IU), vitamin C (400 mg), vitamin D (60 IU), vitamin E (80 IU), vitamin K (150 mcg), thiamin (5 mg), riboflavin (10 mg), niacin (140 mg), vitamin B6 (15 mg), folate (160 mcg), vitamin B12 (240 mcg), biotin (80 mcg) or pantothenic acid (40 mg); (b) including calcium (215 mg), iodine (24 mcg), magnesium (265 mg), zinc (3 mg), selenium (48 mcg), copper (0.2 mg), manganese (0.2 mg), chromium (80 mcg), molybdenum (16 mcg); (p) (100 mg); (c) including a blend of vanadium (40 mcg) or a mixture of fenugreek seed, **alpha-lipoic acid** and coenzyme Q-10 (67 mg); (d) (147 mg); (e) including

betaine HCl (5 mg), sulfur (2 mg); (f) (175 mg); (g) (30 mg); (h) (40 mg); (i) (161 mg); (q) (140 mg); (j) *Cardyceps sinensis* fungus extract (1% cordycepic acid) (16.5 mg) and royal jelly 3 multiply (5% 10-HAD) (18 mg); (k) (50 mg); (l) (1148 mg); (m) (400 mg), (n) (100 million CFU) and (o) (1169 units).

ACTIVITY - Nootropic.

MECHANISM OF ACTION - NF- κ B inhibitor.

USE - For anti-aging treatment (claimed).

ADVANTAGE - (C1) supplies nutritional supplements necessary for proper glycation, DNA methylation, anti-oxidation and control of inflammatory processes; decreases DNA damage, increases DNA repair; improves immune function of human body; maintains proper cell metabolism and body function; assists in cellular regeneration and immune system repair; increases the digestive and metabolic capabilities of the body; maximizes metabolism, proper hormonal formation, release and utilization of supplements of vitamin, mineral ad nutrient supplement system; provides appropriate acidity to both the extracellular and intracellular matrices. The improved ratio of DNA repair over DNA damage results in less cell mutations and more accurate cell copies during cell replication, thus preserving adult stem pods. (C1) applies synergistic effect obtained from the combination of C-MED-100 (RTM; Cat's claw) and other nutritional supplements.

Dwg.0/8

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
E SEIDMAN M/AU
L4 141 S E3-E12
L5 11 S L4 AND (MITOCHONDRI?)
L6 4 S L4 AND (ANTIOXIDANT?)
L7 1 S L6 NOT L5
L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE"

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005

E ALPHA LIPOIC ACID/CN
E THIOCTIC ACID/CN
L9 1 S E3
E ACETYL-L-CARNITINE/CN
L10 1 S E3
E RESVERATROL/CN
L11 1 S E3
E LECITHIN/CN
E N-ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
E ACETYL CYSTEINE/CN
L12 1 S E3

FILE 'CAPLUS' ENTERED AT 09:59:30 ON 23 MAR 2005

L13 1450 S L9
L14 826 S L10
L15 1859 S L11
L16 5712 S L12
L17 78314 S LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR
L18 3 S (L9 OR L10) AND L11 AND L17 AND L12
L19 0 S L9 AND L11 AND L17 AND L12
L20 3 S L10 AND L11 AND L17 AND L12
L21 0 S L20 NOT L18
L22 2 S L9 AND L11

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:05:12 ON 23
MAR 2005

L23 10890 S (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR "
L24 58333 S RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5
L25 198733 S (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHO
L26 5261 S ACETYL CARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "A
L27 32758 S ACETYL CYSTEINE? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
L28 1478 S EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
L29 26500 S MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL
L30 40161 S L27 OR L28 OR L29
L31 5 S L23 AND L24 AND L25 AND L26 AND L30
L32 4 DUP REM L31 (1 DUPLICATE REMOVED)
L33 11 S L23 AND L24 AND L25 AND L30
L34 8 DUP REM L33 (3 DUPLICATES REMOVED)

=> s 124 and 125 and 126 and 130
L35 6 L24 AND L25 AND L26 AND L30

=> dup rem 135

PROCESSING COMPLETED FOR L35

L36 4 DUP REM L35 (2 DUPLICATES REMOVED)
ANSWERS '1-4' FROM FILE CAPLUS

=> d 135 1-4 ibib ed abs

L35 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:3455 CAPLUS
DOCUMENT NUMBER: 140:65214
TITLE: Antiaging nutritional supplement
INVENTOR(S): Giampapa, Vincent C.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 25 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004001817	A1	20040101	US 2003-438247	20030513
WO 2004100896	A2	20041125	WO 2004-US14791	20040511
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2002-378160P P 20020514
US 2003-438247 A 20030513

ED Entered STN: 04 Jan 2004

AB An antiaging nutritional supplement composition includes vitamins, minerals, an inflammatory process support, a blood sugar/insulin support, botanical antioxidants, a methylating factor, a DNA repair agent, a fat metabolizer, an absorption enhancer, a brain function support, whole foods, a cellular energizer, a nucleotide precursor, amino acids, a fatty acid complex, and digestive enzymes. The composition supplies nutritional supplements necessary for proper glycation, DNA methylation, anti-oxidation, and control of inflammatory processes. The composition and the method of use provide an

effective anti-aging treatment by decreasing DNA damage, increasing DNA repair, and improving immune function of human body.

L35 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:271056 CAPLUS
DOCUMENT NUMBER: 136:299719
TITLE: Dietary supplement for promoting healthy hormonal balance
INVENTOR(S): Hastings, Carl W.; Barnes, David J.; Daley, Christine A.
PATENT ASSIGNEE(S): Reliv' International, Inc., USA
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6368617	B1	20020409	US 2001-858047	20010515
PRIORITY APPLN. INFO.:			US 2001-858047	20010515
ED	Entered STN:	11 Apr 2002		
AB	A dietary supplement for promoting healthy hormonal balance in adult human subjects, and especially in elderly subjects, comprises a secretagogue for stimulating the release of human growth hormone (hGH) by the pituitary, and the conversion by hGH to insulin-like growth factor 1 (IGF-1), in combination with 7-keto-dehydroepiandrosterone (7-keto DHEA). The dietary supplement also includes other interacting ingredients for delivering antioxidants for retarding damage at the cellular level caused by the presence of free radicals, and natural herbs for promoting physiol. health. For example, an essentially dry powder constituting a dietary supplement of this invention, to be dissolved in water to provide a daily serving, contained 7-keto-DHEA 25 mg, Symbiotropin 1000 mg, lecithin 200 mg, maltodextrin 7.227 mg, citric acid 640 mg, dipotassium phosphate 25 mg, potassium citrate 25 mg, probiotic blend 100 mg, fruco-oligosaccharides 400 mg, S-adenosyl-L-methionine 5 mg, acetyl-L-carnitine 100 mg, omega-3 fatty acids (Dry n-3) 125 mg, trimethylglycine 100 mg, coenzyme Q10 7.5 mg, resveratrol (Protykin) 10 mg, α -lipoic acid 50 mg, L-glutathione 30 mg, N-acetylcysteine 200 mg, and flavoring agents 300 mg.			

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:741547 CAPLUS
DOCUMENT NUMBER: 135:293963
TITLE: Oral pharmaceuticals containing coenzyme Q with high dissolution qualities
INVENTOR(S): Chopra, Raj K.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6300377	B1	20011009	US 2001-790783	20010222
CA 2432020	AA	20020906	CA 2002-2432020	20020220
WO 2002067864	A2	20020906	WO 2002-US5970	20020220

WO 2002067864 A3 20021219
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 EP 1505958 A2 20050216 EP 2002-721189 20020220
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: US 2001-790783 A 20010222
 WO 2002-US5970 W 20020220

ED Entered STN: 11 Oct 2001

AB The present invention relates to a composition in liquid dosage form of coenzyme

Q or ubiquinone which can be formulated into cosmetic, dietary supplement or pharmaceutical dosage form for administration to patients. The dosage form comprises an effective amount of coenzyme Q or ubiquinone ranging from about 0.05 to about 15, more preferably about 1 to about 10.0 by weight of the composition in combination with a polysorbate surfactant such as a Tween®, surfactant, a vegetable oil or triglyceride, in further combination with a glyceryl ester in amts. effective to produce a liquid dosage form. Optional additives include a phospholipid such as hydroxylated lecithin, among others such as tocopherols or tocopherol esters effective to solubilize the ubiquinone in combination as well as other bioactive agents. Compns. according to the present invention avoid the inclusion of a polyhydric alc. solvent in solubilizing amts. A liquid dosage form contained coenzyme Q10 7, Tween 80 (Polysorbate 80) 38, Tributyrin (Glyceryl tributyrate) 19, medium chain triglycerides 19, and vitamin E alc. (or acetate) 17%. The formulation resulted in 100% dissoln.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:545461 CAPLUS

DOCUMENT NUMBER: 135:127168

TITLE: Reduced form of coenzyme Q in highly bioavailable stable dosage forms

INVENTOR(S): Chopra, Raj K.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001052822	A1	20010726	WO 2001-US1997	20010118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6740338	B1	20040525	US 2000-488332	20000120

CA 2397447 AA 20010726 CA 2001-2397447 20010118
 EP 1251834 A1 20021030 EP 2001-942547 20010118
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: US 2000-488332 A 20000120
 US 2000-637559 A 20000811
 WO 2001-US1997 W 20010118
 OTHER SOURCE(S): MARPAT 135:127168
 ED Entered STN: 27 Jul 2001
 AB The present invention relates to a reduced form of coenzyme Q also known as ubiquinol in a pharmaceutical or cosmetic dosage form, preferably an oral dosage form such as a gelatin capsule. Compns. according to the present invention show high bioavailability of the reduced form of Coenzyme Q. The present invention relates to storage stable compns. comprising effective amts. of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated as in, e.g., capsules, tablets and other orally administrable form. A capsule formulation contained vitamin E acetate 6, hydroxylated lecithin 4, phosphatidylcholine 32, medium-chain triglyceride 20, Gelucire 30, coenzyme Q10 4, and ascorbyl palmitate 4%.
 REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

L1 9392 S SYNERGY
 L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNIT
 L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
 E SEIDMAN M/AU
 L4 141 S E3-E12
 L5 11 S L4 AND (MITOCHONDRI?)
 L6 4 S L4 AND (ANTIOXIDANT?)
 L7 1 S L6 NOT L5
 L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE"

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005

E ALPHA LIPOIC ACID/CN
 E THIOCTIC ACID/CN
 L9 1 S E3
 E ACETYL-L-CARNITINE/CN
 L10 1 S E3
 E RESVERATROL/CN
 L11 1 S E3
 E LECITHIN/CN
 E N-ACETYL CYSTEINE/CN
 E ACETYL CYSTEINE/CN
 E ACETYL CYSTEINE/CN
 L12 1 S E3

FILE 'CAPLUS' ENTERED AT 09:59:30 ON 23 MAR 2005

L13 1450 S L9
 L14 826 S L10
 L15 1859 S L11
 L16 5712 S L12
 L17 78314 S LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR
 L18 3 S (L9 OR L10) AND L11 AND L17 AND L12

)

L19 0 S L9 AND L11 AND L17 AND L12
 L20 3 S L10 AND L11 AND L17 AND L12
 L21 0 S L20 NOT L18
 L22 2 S L9 AND L11

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:05:12 ON 23 MAR 2005

L23 10890 S (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR "
 L24 58333 S RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5
 L25 198733 S (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHO
 L26 5261 S ACETYL CARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "A
 L27 32758 S ACETYL CYSTEIN? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
 L28 1478 S EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
 L29 26500 S MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL
 L30 40161 S L27 OR L28 OR L29
 L31 5 S L23 AND L24 AND L25 AND L26 AND L30
 L32 4 DUP REM L31 (1 DUPLICATE REMOVED)
 L33 11 S L23 AND L24 AND L25 AND L30
 L34 8 DUP REM L33 (3 DUPLICATES REMOVED)
 L35 6 S L24 AND L25 AND L26 AND L30
 L36 4 DUP REM L35 (2 DUPLICATES REMOVED)

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	88.02	100.20
NETWORK CHARGES	1.92	3.96
SEARCH CHARGES	219.24	326.47
DISPLAY CHARGES	44.90	94.35

FULL ESTIMATED COST	354.08	524.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	SINCE FILE ENTRY -8.76	TOTAL SESSION -21.17

IN FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' AT 10:24:17 ON 23 MAR 2005

=> file stnguide

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	354.53	525.43
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		
CA SUBSCRIBER PRICE	SINCE FILE ENTRY -8.76	TOTAL SESSION -21.17

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FILE CONTAINS CURRENT INFORMATION.
 LAST RELOADED: Mar 18, 2005 (20050318/UP).

=> save
 ENTER L#, L# RANGE, ALL, OR (END):all
 ENTER NAME OR (END):110715148/1
 L# LIST L1-L36 HAS BEEN SAVED AS 'L10715148/L'

=> file medline biosis caplus embase wpids

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST	0.06	525.49
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
CA SUBSCRIBER PRICE	ENTRY	SESSION
	0.00	-21.17

FILE 'MEDLINE' ENTERED AT 10:25:40 ON 23 MAR 2005

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FILE 'WPIDS' ENTERED AT 10:25:40 ON 23 MAR 2005
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=> s (lipoic acid? or (acetyl (W) L (W) carnitine?) or ("acetyl-L-carnitine")) and
resveratrol? and (lecithin? or phosphatidyl choline?) and ((N (W) acetyl (W)
cysteine) or ("N-acetyl cysteine") or ("N-acetylcysteine"))
L37 0 (LIPOIC ACID? OR (ACETYL (W) L (W) CARNITINE?) OR ("ACETYL-L-CAR
NITINE")) AND RESVERATROL? AND (LECITHIN? OR PHOSPHATIDYL CHOLI
NE?) AND ((N (W) ACETYL (W) CYSTEINE) OR ("N-ACETYL CYSTEINE")
OR ("N-ACETYLCYSTEINE"))

=> s lipoic? and carnitine? and resveratrol? and lecithin? and cysteine?
L38 3 LIPOIC? AND CARNITINE? AND RESVERATROL? AND LECITHIN? AND CYSTEI
NE?

=> dup rem 138
PROCESSING COMPLETED FOR L38
L39 2 DUP REM L38 (1 DUPLICATE REMOVED)
ANSWERS '1-2' FROM FILE CAPLUS

=> d 139 1-2 ibib ed abs

L39 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
ACCESSION NUMBER: 2001:741547 CAPLUS
DOCUMENT NUMBER: 135:293963
TITLE: Oral pharmaceuticals containing coenzyme Q with high
dissolution qualities
INVENTOR(S): Chopra, Raj K.
PATENT ASSIGNEE(S): USA
SOURCE: U.S., 11 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6300377	B1	20011009	US 2001-790783	20010222
CA 2432020	AA	20020906	CA 2002-2432020	20020220
WO 2002067864	A2	20020906	WO 2002-US5970	20020220
WO 2002067864	A3	20021219		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,				

LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
 UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
 BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG
 EP 1505958 A2 20050216 EP 2002-721189 20020220
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
 PRIORITY APPLN. INFO.: US 2001-790783 A 20010222
 WO 2002-US5970 W 20020220

ED Entered STN: 11 Oct 2001

AB The present invention relates to a composition in liquid dosage form of coenzyme

Q or ubiquinone which can be formulated into cosmetic, dietary supplement or pharmaceutical dosage form for administration to patients. The dosage form comprises an effective amount of coenzyme Q or ubiquinone ranging from about 0.05 to about 15, more preferably about 1 to about 10.0 by weight of the composition in combination with a polysorbate surfactant such as a Tween®, surfactant, a vegetable oil or triglyceride, in further combination with a glyceryl ester in amts. effective to produce a liquid dosage form. Optional additives include a phospholipid such as hydroxylated lecithin, among others such as tocopherols or tocopherol esters effective to solubilize the ubiquinone in combination as well as other bioactive agents. Compns. according to the present invention avoid the inclusion of a polyhydric alc. solvent in solubilizing amts. A liquid dosage form contained coenzyme Q10 7, Tween 80 (Polysorbate 80) 38, Tributyrin (Glyceryl tributyrate) 19, medium chain triglycerides 19, and vitamin E alc. (or acetate) 17%. The formulation resulted in 100% dissoln.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 2001:545461 CAPLUS

DOCUMENT NUMBER: 135:127168

TITLE: Reduced form of coenzyme Q in highly bioavailable stable dosage forms

INVENTOR(S): Chopra, Raj K.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001052822	A1	20010726	WO 2001-US1997	20010118
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GO, GW, ML, MR, NE, SN, TD, TG				
US 6740338	B1	20040525	US 2000-488332	20000120
CA 2397447	AA	20010726	CA 2001-2397447	20010118
EP 1251834	A1	20021030	EP 2001-942547	20010118
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.: US 2000-488332 A 20000120
 US 2000-637559 A 20000811
 WO 2001-US1997 W 20010118

OTHER SOURCE(S): MARPAT 135:127168

ED Entered STN: 27 Jul 2001

AB The present invention relates to a reduced form of coenzyme Q also known as ubiquinol in a pharmaceutical or cosmetic dosage form, preferably an oral dosage form such as a gelatin capsule. Compns. according to the present invention show high bioavailability of the reduced form of Coenzyme Q. The present invention relates to storage stable compns. comprising effective amts. of ubiquinol in combination with an amount of a reducing agent effective to maintain ubiquinol in its reduced state when formulated as in, e.g., capsules, tablets and other orally administrable form. A capsule formulation contained vitamin E acetate 6, hydroxylated lecithin 4, phosphatidylcholine 32, medium-chain triglyceride 20, Gelucire 30, coenzyme Q10 4, and ascorbyl palmitate 4%.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
CONNECT CHARGES	14.58	115.17	
NETWORK CHARGES	0.42	4.50	
SEARCH CHARGES	47.25	373.72	
DISPLAY CHARGES	5.30	99.65	
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FULL ESTIMATED COST	67.55	593.04	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-22.63	

IN FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' AT 10:29:16 ON 23 MAR 2005

=> s synergy and antioxida?

L40 342 SYNERGY AND ANTIOXIDA?

=> s (synergy or synergistic?) (L) antioxidant?

L41 271 (SYNERGY OR SYNGERICSTIC?) (L) ANTIOXIDANT?

=> dup rem 141

PROCESSING COMPLETED FOR L41

L42 153 DUP REM L41 (118 DUPLICATES REMOVED)
 ANSWERS '1-47' FROM FILE MEDLINE
 ANSWERS '48-70' FROM FILE BIOSIS
 ANSWERS '71-135' FROM FILE CAPLUS
 ANSWERS '136-138' FROM FILE EMBASE
 ANSWERS '139-153' FROM FILE WPIDS

=> s 142 and py<2003

2 FILES SEARCHED...

4 FILES SEARCHED...

L43 114 L42 AND PY<2003

=> d scan

L43 114 ANSWERS BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
 TI Antioxidant synergy of alpha-tocopherol and
 phospholipids.
 IT Miscellaneous Descriptors
 antioxidant synergy; antioxidation; fish oils:

chemical aspects, fats and oils; oxidation processes; sardine oil: chemical aspects, fats and oils

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 17-13 (Food and Feed Chemistry)
TI Resveratrol content of some Piedmont wines
ST wine resveratrol Italy Piedmont; red wine resveratrol Italy Piedmont; white wine resveratrol Italy Piedmont
IT Wine
 (red; resveratrol content of some Italian Piedmont wines)
IT Wine
 (resveratrol content of some Italian Piedmont wines)
IT Wine
 (white; resveratrol content of some Italian Piedmont wines)
IT 501-36-0, Resveratrol
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
 (resveratrol content of some Italian Piedmont wines)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 35
TI Synergism between polymer antioxidants; kinetic modelling
ST hindered phenol hydroperoxide decomposer antioxidative synergism oxidative polymer degrdn
IT Phenols, uses
RL: NUU (Other use, unclassified); USES (Uses)
 (hindered; kinetic modeling for antioxidative synergism of hindered phenols and hydroperoxide decomposers for polymers)
IT Simulation and Modeling, physicochemical
 (kinetic modeling for antioxidative synergism of hindered phenols and hydroperoxide decomposers for polymers)
IT Hydroperoxides
Polyolefins
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); PROC (Process)
 (kinetic modeling for antioxidative synergism of hindered phenols and hydroperoxide decomposers for polymers)
IT Polymer degradation kinetics
 (oxidative; kinetic modeling for antioxidative synergism of hindered phenols and hydroperoxide decomposers for polymers)
IT Antioxidants
 (synergistic; kinetic modeling for antioxidative synergism of hindered phenols and hydroperoxide decomposers for polymers)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 30-20 (Terpenes and Terpenoids)
Section cross-reference(s): 22, 33, 34
TI Synergy affects of vitamin C and amino acids on the antioxidant properties of vitamin E
ST synergy effects antioxidant vitamin E; amino acid synergy effect vitamin E; oxidn mechanism vitamin C E; butylamine effect vitamin E oxidn; oxygen mol effect vitamin E radical
IT Amino acids, properties
RL: PRP (Properties)
 (effect of, on antioxidant properties of vitamin E)
IT Oxidation
 (of vitamin C and E, mechanism for)

IT Kinetics of oxidation
 (of vitamins E and C)
IT Cooperative phenomena
 (synergism of vitamins C and E as antioxidants)
IT **Antioxidants**
 (vitamins C and E, **synergy** effects of)
IT 1406-18-4, Vitamin E
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (antioxidant properties of, **synergy** effects of
 vitamin C on)
IT 52-90-4, Cysteine, uses and miscellaneous 56-41-7, Alanine, uses and
 miscellaneous 109-73-9, Butylamine, uses and miscellaneous 616-91-1,
 N-Acetylcysteine
 RL: PRP (Properties)
 (effect of, on vitamin E antioxidant properties)
IT 7782-44-7, Oxygen, uses and miscellaneous
 RL: PRP (Properties)
 (effect of, on vitamin E radicals)
IT 301-00-8, Methyl linolenate
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (radical oxidation of, inhibition of, by vitamins C and E, synergism in).
IT 50-81-7P, Vitamin C, preparation
 RL: PRP (Properties); PREP (Preparation)
 (**synergy** effects of, on vitamin E antioxidant
 properties)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 37-4 (Plastics Manufacture and Processing)
TI Thermo-oxidative degradation of linear low density poly(ethylene) in the
 presence of carbon black: a kinetic approach
ST thermooxidative degrdn carbon black filled linear low density polyethylene
IT Polymer degradation kinetics
 (mechanism of carbon black effect on thermooxidative degradation of linear
 low d. polyethylene)
IT Linear low density polyethylenes
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical
 process); POF (Polymer in formulation); PRP (Properties); PROC (Process);
 USES (Uses)
 (mechanism of carbon black effect on thermooxidative degradation of linear
 low d. polyethylene)
IT Carbon black, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (mechanism of carbon black effect on thermooxidative degradation of linear
 low d. polyethylene)
IT Polymer degradation
 (thermooxidative; mechanism of carbon black effect on thermooxidative
 degradation of linear low d. polyethylene)
IT 74-85-1D, Ethene, polymers with α -olefins, polymers with
 α -olefins
 RL: CPS (Chemical process); PEP (Physical, engineering or chemical
 process); POF (Polymer in formulation); PRP (Properties); PROC (Process);
 USES (Uses)
 (mechanism of carbon black effect on thermooxidative degradation of linear
 low d. polyethylene)
IT 26780-96-1, Naugard Super Q
 RL: MOA (Modifier or additive use); USES (Uses)
 (stabilizer; mechanism of carbon black effect on thermooxidative
 degradation of linear low d. polyethylene)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN

CC 30 (Rubber and Other Elastomers)
TI Aging of rubber. Some effects of metal contamination
IT Rubber
 (aging of, under metal-catalyzed oxidation and inhibition by
 2-benzimidazolethiol synergistic mixts. with amine and phenolic
 oxidants)
IT Amines
 (antioxidant mixts. with 2-benzimidazolethiol, metal-catalyzed
 degradation and oxidation of rubber inhibition by)
IT Phenols
 (antioxidants, mixts. with 2-benzimidazolethiol, metalcatalyzed
 degradation and oxidation of rubber inhibition by)
IT Salts
 (catalysis of rubber degradation and oxidation by, inhibition by
 2-benzimidazolethiol-amine or -phenol antioxidant synergists)
IT 583-39-1, 2-Benzimidazolethiol
 (antioxidant mixts. with amines and phenols, aging inhibition in
 metal-contaminated rubber by)
IT 57-11-4, Stearic acid
 (salts, rubber aging by)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
CC 37-6 (Plastics Manufacture and Processing)
Section cross-reference(s): 27, 38
TI Aryl-substituted dithianes and dithiolanes as process stabilizers for
polyolefins
ST polyolefin stabilizer aryl substituted dithiane dithiolane
IT Antioxidants
 (aryl-substituted dithianes and dithiolanes as process stabilizers for
 polyolefins)
IT Extrusion of plastics and rubbers
 (aryl-substituted dithianes and dithiolanes as process stabilizers for
 polyolefins processed by extrusion)
IT Cooperative phenomena
 (synergism; **synergy** of aryl-substituted dithianes and
 dithiolanes with phenolic **antioxidants** in stabilization of
 polyolefins)
IT 50766-67-1P
RL: MOA (Modifier or additive use); RCT (Reactant); SPN (Synthetic
preparation); TEM (Technical or engineered material use); PREP
(Preparation); RACT (Reactant or reagent); USES (Uses)
 (aryl-substituted dithianes and dithiolanes as process stabilizers for
 polyolefins)
IT 6331-22-2P 24588-72-5P 24588-74-7P 57009-76-4P 261767-79-7P
261767-80-0P 261767-81-1P 261767-82-2P 261767-83-3P 261767-84-4P
261767-85-5P 261767-86-6P
RL: MOA (Modifier or additive use); SPN (Synthetic preparation); TEM
(Technical or engineered material use); PREP (Preparation); USES (Uses)
 (aryl-substituted dithianes and dithiolanes as process stabilizers for
 polyolefins)
IT 25085-53-4, Himont 6501
RL: PEP (Physical, engineering or chemical process); POF (Polymer in
formulation); PROC (Process); USES (Uses)
 (aryl-substituted dithianes and dithiolanes as process stabilizers for
 polyolefins)
IT 540-63-6, 1,2-Ethanedithiol 93206-91-8, 4-Dodecyloxy-3-
methoxybenzaldehyde
RL: RCT (Reactant); RACT (Reactant or reagent)
 (reactant in prepn of aryl-substituted dithianes and dithiolanes as
 process stabilizers for polyolefins)
IT 6683-19-8 31570-04-4, Tris(2,4-di-tert-butylphenyl)phosphite
261767-87-7

RL: MOA (Modifier or additive use); USES (Uses)
(**synergy** of aryl-substituted dithianes and dithiolanes with phenolic **antioxidants** in stabilization of polyolefins)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN

AN 2000-497711 [44]. WPIDS
TI Composition of ingredients for biologically-active additive to food-stuffs
ussurochka.

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
TI Synergy between oat polyphenolics and alpha-tocopherol in prevention of LDL oxidation.

IT Methods & Equipment
HPLC [high performance liquid chromatography]: characterization method, liquid chromatography
IT Miscellaneous Descriptors
Meeting Abstract

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN

CC 37-6 (Plastics Manufacture and Processing)
TI Synergy effects of binary and ternary mixtures of inhibitors in the process of polypropylene autoxidation

ST antioxidant polypropylene autoxidn

IT **Antioxidants**
Simulation and Modeling, physicochemical
(**synergy** effects of binary and ternary mixts. of inhibitors in the process of polypropylene autoxidn.)

IT 2082-79-3, Naugard 76 10081-67-1, Naugard 445 13408-29-2, Nitroxyl radical 25085-53-4, ProFax 6501
RL: PRP (Properties)
(**synergy** effects of binary and ternary mixts. of inhibitors in the process of polypropylene autoxidn.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN

TI Antioxidant activity of the nitrogenous natural compounds.

IT Miscellaneous Descriptors
FOOD CHEMISTRY; LIPIDS; MAILLARD REACTION; PROTEINS; RADICALS

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN

CC 18-0 (Animal Nutrition)

Section cross-reference(s): 14

TI Longterm adequacy of all major **antioxidants**, presumably in **synergy** with other vegetable-derived nutrients, may help to prevent early stages of cardiovascular disease and cancer

ST review cardiovascular disease cancer diet

IT **Antioxidants**

Diet

Neoplasm

(longterm adequacy of all major **antioxidants**, presumably in **synergy** with other vegetable-derived nutrients, may help to prevent early stages of cardiovascular disease and cancer)

IT Cardiovascular system

(disease, longterm adequacy of all major **antioxidants**,

presumably in **synergy** with other vegetable-derived nutrients,
may help to prevent early stages of cardiovascular disease and cancer)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):.

L43 114 ANSWERS CAPLUS COPYRIGHT 2005 ACS on STN
IC ICM A61K
CC 63-6 (Pharmaceuticals)
TI Multi-component antioxidant compounds, pharmaceutical compositions
containing same, and their use for reducing or preventing oxidative stress
ST sulfhydryl antioxidant compn oxidative stress
IT Testis
(-blood barrier; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Blood
(-retina barrier; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Blood
(-testis barrier; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Hepatitis
(C; multi-component antioxidant compds. for reducing or preventing
oxidative stress)
IT Brain, disease
Prion diseases
(Creutzfeldt-Jakob; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Platelet (blood)
(activation, pathogenic; multi-component antioxidant compds. for
reducing or preventing oxidative stress)
IT Respiratory distress syndrome
(adult; multi-component antioxidant compds. for reducing or preventing
oxidative stress)
IT Nervous system, disease
(amyotrophic lateral sclerosis; multi-component antioxidant compds. for
reducing or preventing oxidative stress)
IT Infection
(bacterial; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Brain
(basal ganglia, degeneration; multi-component antioxidant compds. for
reducing or preventing oxidative stress)
IT Drug delivery systems
(buccal; multi-component antioxidant compds. for reducing or preventing
oxidative stress)
IT Drug delivery systems
(carriers; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Nervous system, disease
(central, oxidative stress in; multi-component antioxidant compds. for
reducing or preventing oxidative stress)
IT Ischemia
(cerebral; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Drug delivery systems
(emulsions; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Drug delivery systems
(gels; multi-component antioxidant compds. for reducing or preventing
oxidative stress)
IT Drug delivery systems
(inhalants; multi-component antioxidant compds. for reducing or
preventing oxidative stress)
IT Macrophage

(intravascular macrophage adhesion; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Brain, disease
(ischemia; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Peroxidation
(lipid; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Nerve, disease
(motor; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT AIDS (disease)

Aging, animal

Alzheimer's disease

Amnesia

Antioxidants

Asthma

Atherosclerosis

Blood-brain barrier

Buffers

Cardiovascular system, disease

Cataract

Cell membrane

Cystic fibrosis

Diabetes mellitus

Down's syndrome

Hypertension

Inflammation

Influenza

Multiple sclerosis

Neoplasm

Oxidative stress, biological

Parkinson's disease

Preservatives

Radiotherapy

Rheumatoid arthritis

Solvents

Sunburn

Thickening agents

Tobacco smoke
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Reactive oxygen species
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Peptides, biological studies
RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Heart, disease
Inflammation
(myocarditis; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(nasal; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(oral; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(parenterals; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Lipids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(peroxidin.; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(rectal; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Eye
(retina, -blood barrier; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Brain, disease
Prion diseases
(scrapie; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(skin pads; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Blood vessel
(smooth muscle, proliferation; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(solns.; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Brain, disease
(spongiform encephalopathy; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Brain, disease
(stroke; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(suspension; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(topical; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Drug delivery systems
(transdermal; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Nervous system
(viral infection; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT Infection
(viral; multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT 50-36-2, Cocaine 57-27-2, Morphine, biological studies
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT 7782-44-7D, Oxygen, reactive species
RL: ADV (Adverse effect, including toxicity); BSU (Biological study, unclassified); BIOL (Biological study)
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT 9027-41-2, Hydrolase 9031-96-3, Peptidase
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(multi-component antioxidant compds. for reducing or preventing oxidative stress)

IT 52-90-4, Cysteine, biological studies
RL: BUU (Biological use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); PROC (Process); RACT (Reactant)

or reagent); USES (Uses)
 (multi-component antioxidant compds. for reducing or preventing
 oxidative stress)
 IT 292631-03-9P
 RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)
 (multi-component antioxidant compds. for reducing or preventing
 oxidative stress)
 IT 29022-11-5 71989-31-6 103213-32-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (multi-component antioxidant compds. for reducing or preventing
 oxidative stress)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	62.65	163.24
NETWORK CHARGES	1.20	5.28
SEARCH CHARGES	58.59	385.06
DISPLAY CHARGES	5.30	99.65
FULL ESTIMATED COST	127.74	653.23
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-22.63

IN FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' AT 10:38:08 ON 23 MAR 2005

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005
 L1 9392 S SYNERGY
 L2 152 S SYNERGY AND (ANTIOXIDANT? OR LIPOIC ACID? OR "ACETYL-L-CARNITIN
 L3 2 S L2 AND (COGNITIVE OR COGNITION OR AUDITORY OR HEARING)
 E SEIDMAN M/AU
 L4 141 S E3-E12
 L5 11 S L4 AND (MITOCHONDRI?)
 L6 4 S L4 AND (ANTIOXIDANT?)
 L7 1 S L6 NOT L5
 L8 1 S L4 AND (RESVERATROL? OR LIPOIC ACID? OR "ACETYL-L-CARNITINE")

FILE 'STNGUIDE' ENTERED AT 09:56:12 ON 23 MAR 2005

FILE 'CAPLUS' ENTERED AT 09:57:26 ON 23 MAR 2005

FILE 'REGISTRY' ENTERED AT 09:57:38 ON 23 MAR 2005
 E ALPHA-LIPOIC ACID/CN
 E THIOCTIC ACID/CN
 L9 1 S E3
 E ACETYL-L-CARNITINE/CN
 L10 1 S E3
 E RESVERATROL/CN
 L11 1 S E3
 E LECITHIN/CN
 E N-ACETYL CYSTEINE/CN
 E ACETYL CYSTEINE/CN
 E ACETYL CYSTEINE/CN

L12

1 S E3

FILE 'CAPLUS' ENTERED AT 09:59:30 ON 23 MAR 2005

L13 1450 S L9
L14 826 S L10
L15 1859 S L11
L16 5712 S L12
L17 78314 S LECITHIN? OR PHOSPHATIDYL CHOLINE? OR PHOSPHATIDYLCHOLINE? OR
L18 3 S (L9 OR L10) AND L11 AND L17 AND L12
L19 0 S L9 AND L11 AND L17 AND L12
L20 3 S L10 AND L11 AND L17 AND L12
L21 0 S L20 NOT L18
L22 2 S L9 AND L11

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:05:12 ON 23
MAR 2005

L23 10890 S (ALPHA LIPOIC ACID?) OR (LIPOIC ACID?) OR THIOCTIC ACID? OR "
L24 58333 S RESVERATROL? OR "KO-JO-KON" OR "3,4',5-STILBENETRIOL" OR "3,5
L25 198733 S (PHOSPHATIDYL (W) CHOLINE?) OR (PHOSPHATIDYLCHOLINE?) OR (CHO
L26 5261 S ACETYL CARNITINE? OR (ACETYL (W) CARNITINE?) OR MEDOSAN? OR "A
L27 32758 S ACETYL CYSTEIN? OR MERCAPTURIC ACID? OR ACEMUC? OR ACETABS? OR
L28 1478 S EURESPIRAN? OR EXOMUC? OR FABROL? OR FLUIMICIL? OR FLUPROWIT?
L29 26500 S MUCOSOLVIN? OR (N (W) ACETYL (W) L (W) CYSTEINE) OR "N-ACETYL
L30 40161 S L27 OR L28 OR L29
L31 5 S L23 AND L24 AND L25 AND L26 AND L30
L32 4 DUP REM L31 (1 DUPLICATE REMOVED)
L33 11 S L23 AND L24 AND L25 AND L30
L34 8 DUP REM L33 (3 DUPLICATES REMOVED)
L35 6 S L24 AND L25 AND L26 AND L30
L36 4 DUP REM L35 (2 DUPLICATES REMOVED)

FILE 'STNGUIDE' ENTERED AT 10:24:47 ON 23 MAR 2005
SAVE ALL L10715148/L

FILE 'MEDLINE, BIOSIS, CAPLUS, EMBASE, WPIDS' ENTERED AT 10:25:40 ON 23
MAR 2005

L37 0 S (LIPOIC ACID? OR (ACETYL (W) L (W) CARNITINE?) OR ("ACETYL-L-
L38 3 S LIPOIC? AND CARNITINE? AND RESVERATROL? AND LECITHIN? AND CYS
L39 2 DUP REM L38 (1 DUPLICATE REMOVED)
L40 342 S SYNERGY AND ANTOXIDA?
L41 271 S (SYNERGY OR SYNERGISTIC?) (L) ANTIOXIDANT?
L42 153 DUP REM L41 (118 DUPLICATES REMOVED)
L43 114 S L42 AND PY<2003

=> s 143 and (antioxidant (W) synergy)
L44 20 L43 AND (ANTIOXIDANT (W) SYNERGY)

=> s 143 and (antioxidant synergy of alpha-tocopherol and phospholipids)
L45 1 L43 AND (ANTIOXIDANT SYNERGY OF ALPHA-TOCOPHEROL AND PHOSPHOLIP
IDS)

=> d 145 ibib ed abs.

L45 ANSWER 1 OF 1 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 1999:415272 BIOSIS
DOCUMENT NUMBER: PREV199900415272
TITLE: **Antioxidant synergy of alpha-tocopherol and phospholipids.**
AUTHOR(S): Bandarra, Narcisa M.; Campos, Regina M.; Batista, Irineu;
Nunes, M. Leonor; Empis, Jose M. [Reprint author]
CORPORATE SOURCE: Centro de Engenharia Biologica e Quimica, Instituto
Superior Tecnico, Av. Rovisco Pais, 1049-001, Lisboa,
Portugal
SOURCE: Journal of the American Oil Chemists' Society, (Aug., 1999)

Vol. 76, No. 8, pp. 905-913. print.
CODEN: JAOCA7. ISSN: 0003-021X.

DOCUMENT TYPE:

Article

LANGUAGE:

English

ENTRY DATE:

Entered STN: 18 Oct 1999

Last Updated on STN: 18 Oct 1999

ED Entered STN: 18 Oct 1999

Last Updated on STN: 18 Oct 1999

AB The prevention of oxidation of a refined sardine oil by alpha-tocopherol at 0.04%, by several **phospholipids** (phosphatidylcholine (PC), phosphatidylethanolamine (PE), and cardiolipin (CL)) at 0.5%, as well as by combinations of alpha-tocopherol with each phospholipid, was investigated. The evolution of the oxidation process during 1 mon at 40 \pm 2^oC was followed by a series of methods, measuring peroxide value (PV), diene, triene, and polyene index, and absorbance at 430 nm, while alpha-tocopherol and phospholipid content were being monitored. Among these indices, PV was found to be the most adequate to follow the process. PC was the most effective individual **antioxidant** as shown by the PV values obtained at the end of the storage period, which were 54.0, 83.4, 87.9, and 97.7 meq O₂/kg for PC, CL, PE, and alpha-tocopherol, respectively. The highest synergistic effect was obtained with a mixture of alpha-tocopherol and PE, and the second and third best by mixtures made with PC and CL, respectively. The corresponding PV values recorded at the end of the period were 27.0, 35.0, and 58.0 meq O₂/kg. The high degree of **synergy** between PE and tocopherol is probably due to the occurrence of a simultaneous **antioxidant** mechanism involving Maillard compounds.

=> save

ENTER L#, L# RANGE, ALL, OR (END):all

ENTER NAME OR (END):110715148/1

'L10715148/L' IN USE

A single name cannot be used for two saved items at the same time. Enter "Y" if you wish to replace the current saved name with a new definition. Enter "N" if the current saved definition must be preserved. You may then reenter the SAVE command with a different saved name. Enter "DISPLAY SAVED" at an arrow prompt (=>) to see a list of your currently defined saved names.

REPLACE OLD DEFINITION? Y/(N):y

L# LIST L1-L45 HAS BEEN SAVED AS 'L10715148/L'

=> d his

(FILE 'HOME' ENTERED AT 09:45:47 ON 23 MAR 2005)

FILE 'CAPLUS' ENTERED AT 09:45:52 ON 23 MAR 2005

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L43 114 S L42 AND PY<2003
L44 20 S L43 AND (ANTIOXIDANT (W) SYNERGY)
L45 1 S L43 AND (ANTIOXIDANT SYNERGY OF ALPHA-TOCOPHEROL AND PHOSPHO
SAVE ALL L10715148/L